APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a Definite Recommendation as to the Proper Grading in Each Case be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. Communications Relating to Applicants are considered by the Board as Strictly Confidential.

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from Non-Residents of North America until the expiration of ninety (90) days from December 1, 1924.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age Mana	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	80 years	10 years*	5 years
Associate Member	Qualified to direct work	25 years	6 years*	1 year
Junior	Qualified for sub-professional work	18 yearst	2 years*	M SELEAN FINAL OFFICE
Affiliate	Qualified by scientific acquire- ments or practical experience to co-operate with engineers	one theptenid	ns Qo. Biching	of (april 197) for Loremotte Assembly Pop
Fellow	Contributor to the permanent funds of the Society	las, it is it	Material Robot	nosaloje livi P. Mavri Con

Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

[†] Membership ceases at age of 32 unless transferred to higher grade.

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This list is issued to meratransport applicants; on object is is is is in a contract the contract of the contr

Names and Addresses of Applicants for Admission and for Transfer on this Preliminary List,
Arranged Alphabetically.

Name. Address Address.	Page.	Name: vom doiny maddress.van of Page.
LLEN, FLOYD W	315 315 314 316 317 3317 317 318 318 319 319 320 320 320 320 320 321 321 322 323 321 322 322 323 323 323	LYMAN, RICHARD F. Oakland, Cal. 324 MCDONALD, HAYWARD C. Big Creek, Cal. 325 MARSH, HAROLD H. Washington, D. C. 325 MARTIN, JOHN T. Holtwood, Pa. 325 MILLARD, BRYANT T. Oroville, Cal. 325 MILLARD, BRYANT T. Oroville, Cal. 326 MORGAN, ALFRED C. Williamsville, N. Y. 326 MUNSON, SPENCER M., JR. Sacramento, Cal. 326 MUNSON, SPENCER M., JR. Sacramento, Cal. 326 OLIVER, WILLIAM A. Beloit, Wis. 326 OLIVER, WILLIAM A. Beloit, Wis. 326 OLIVER, WILLIAM A. Beloit, Wis. 326 PITTERREN, THOMAS. Chicago, Ill. 327 REFYES, GLENN S. Hoboken, N. J. 327 RITTMASTER, OSCAR. Los Angeles, Cal. 328 SACKS, SAMUEL I. Hoboken, N. J. 327 RITTMASTER, OSCAR. Los Angeles, Cal. 328 SACKS, SAMUEL I. Berkeley, Cal. 328 SACKS, SAMUEL I. Berkeley, Cal. 328 SEEFRACH, GEORGE J. YONKETS, N. Y. 329 SHERLOCK, ROBEET H. Ann Arbor, Mich. 329 SLACCI, GIACINTO. Auckland, N. Z. 329 SLOVER, GEORGE. Saltsburg, Pa. 330 SOMERYBLL, BREHON B. New York City. 329 SLOVER, GEORGE Cal. 331 STILES, JOHN C. Florence, Ala. 331 STILES, JOHN R. Jersey City, N. Y. 332 STURBINS, JOHN R. New York City. 333 TEMPERST, JOSEPH E. Sacramento, Cal. 333 TEMPEST, JOSEPH E. Sacramento, Cal. 333 TEMPEST, JOSEPH E. Sacramento, Cal. 333 TEMPEST, JOSEPH E. Sacramento, Cal. 333
EXTON, WILLIAM W Oregon City, Ore	324	WEISKOPF, WALTER H New York City 339
MAHY, CHARLES M Astoria, N. Y	324	WENDEL, LEON H Ann Arbor, Mich 334
OCHER, HARRY OUtica, N. Y	337	ZEIGLER, CHARLES F Norton, Kans 334
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Qualified by scientific sequirements or practical experience to co-operate with engineers

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Contributor to the permanent funds of the Society

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[&]quot;Graduation from a school of engineering of recognized reputation is equivalent to 2 years' active practice.

† Membership cases at age of 32 unless transferred to higher grade.

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designs, estimates, specifications

and miscellaneous from and steel for building

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The numbers at the left of each name indicate the serial number of the applicant for the current year, and the district in which he resides.

The abbreviations in Italics represent, respectively, TT, Total Time; SP, Sub-Professional Work; P, Professional Work; RC, Responsible Charge; D, Design. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of two years for graduation and of one-third of a year for each academic year successfully completed in an engineering college without graduation are included in Total Time and Sub-Professional Work.

district drainage, county and clip NOISZIMOR ROF Stone & Webster, Boston, Mass., RC 2 : D 2.5. Aug-1917 to Jun NOISZIMOR ROF Stone & Webster, Boston, Mass.,

work construction, privace and

969 (12) ALLEN, FLOYD WESLEY, 521 Railway Exchange Bldg., Portland, Ore. (Age 38. Born Mattoon, Ill.) Student, Western Univ., Pa. (1903 to 1904), and Univ. of Washington (1904 to 1906). May to Nov. 1906 Draftsman and Transitman, and April 1909 to March 1910 Draftsman, Chicago, Milwaukee & St. Paul Ry. TT 1.4. Nov. 1906 to April 1907 Draftsman and Office Engr., Great Northern Ry. TT 0.5: RC 0.2: D 0.2. April 1907 to Jan. 1908 Engr. in charge construction, Alaska Pacific Ry., Katalla, Alaska. TT 0.8: RC 0.8: D 0.8. May to Nov. 1908 Asst. Engr., U. S. Engr. Office, in charge of dredging St. Michael Canal, Alaska, TT 0.6; RC 0.6; D 0.6. Nov. 1908 to April 1909 Locating Engr., logging railway, South Fork Lumber Co. TT 0.5; RC 0.5; D 0.5. March to Dec. 1910 Asst. Engr., Oregon Washington Ry. & Navigation Co., in charge construction east end, Grays Harbor Branch. TT 0.7: RC 0.7: D 0.7. Jan. to Nov. 1911 Locating Engr., and Nov. 1911 to April 1916 Chf. Deputy County Engr., King County, at Seattle, Wash. TT 5.3: RC 5.3: D 5.3. April 1916 to May 1919 in private practice at Seattle, handled over \$2 000 000 in water systems, sewerage, paving, dyking, power, drainage, docks and railroad work; also acted as Cons. Engr. for Denny Renton Clay & Coal Co., Seattle, National Sewer Pipe Mfg. Association, Akron, Ohio, and others. TT 3: RC 3: D 3. May 1919 to Feb. 1922 Chf. Engr., Coast Culvert & Flume Co., Portland, Ore. TT 2.8: RO 2.8: D 2.8. Feb. to Sept. 1922 Engr. on special work, Willamette Iron & Steel Co., Portland. TT 0.5: D 0.5. Sept. 1922 to date in private practice at Portland; reported on North Unit Irrigation Dist. and several other projects; designed Pringle Falls Power Plant for Oswald West; built water systems for Beaverton Banks, and at present on engineering systems for St. Helens and Garibaldi, Ore. TT 2: RC 2: D 2. TT 18.1: RC 15.9: D 16.4. Refers to T. R. Beeman, J. E. Blackwell, J. M. Clapp, R. H. Ober, O. E. Stanley, E. C. Willard.

970 (5) ANDREWS, CHARLES MORRISON, 2708 E. Grace St., Richmond, Va. (Age 42. Born Richmond, Va.) Completed course in drawing, International Correspondence Schools, 1901. Studied ship construction, Franklin Inst., Philadelphia, Pa., 1903, and structural steel design, Wilson Eng. Corporation, Hanover, Mass. Detail Draftsman, Richmond Locomotive Works (June 1900 to March 1901), Wm. R. Trigg Shipbuilding Co., Richmond (April 1901 to Dec. 1902), Baldwin Locomotive Works (Feb. to May 1904) and American Locomotive Co., Richmond (July to Sept. 1904). TT 1.9. Feb. 1903 to Jan. 1904 Assembly Pipe Draftsman, New York Shipbuilding Co., Camden, N. J. TT 0.9. Dec. 1904 July 1905 Assembly Draftsman on pipe systems, U. S. Navy, Dept. Constr. and Repair, Naval Constructor, Newport News, Va. TT 0.6. Aug. 1905 to Sept. 1906 with Ashton Starke, Richmond, as Salesman for gasoline engines, water supply outfits, pumps, rams, tanks and towers. TT 1.1. Sept. 1906 to Nov. 1908 Chf. Engr., Richmond Iron Works, responsible for design of fabricated steel structures and miscellaneous iron and steel items for buildings. TT 2.1: RC 2.1: D 2.1. Nov. 1908-April 1910 in private practice as Mech. Engr., designed machinery, sold iron and steel for buildings; Dist. Inspector for Hildreth & Co., Inspecting Engr., New York, also structural steel inspection for Pittsburgh Testing Laboratory through E. T. D. Myers, Jr., Res. Insp. Engr. TT 1.5: RC 1.5: D 1.5. May 1910 to Feb. 1911 Asst. to Gen. Mgr., Richmond Iron Works Corporation, Automobile Mfrs., responsible work.

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TT 0.7: RC 0.7. Feb. 1911 to July 1912 Chf. Engr., Boyd Iron Works, Richmond, entirely responsible for design and partly for erection of tabricated steel structures and miscellaneous from and steel for buildings. TT 1.2: RO 1.2: D 1.2. Aug. 1912 to date with Richmond Structural Steel Co., until April 1913 as Draftsman; then Dept. Mgr., in responsible charge at first of design and manufacture, and later of design only, of fabricated structural steel and miscellaneous from and steel for buildings. TT 12.3: RC 11.6: D 12.3. TT 22.4: RC 17.2: D 17.1: Refers to A. C. Copland, E. M. Hastings F. W. Lepper, E. T. D. Myers, A. J. Saville.

971 (3) BASE, JOSEPH FRANCIS, 143 Fellows Ave., Syracuse, N. Y. (Age 30. Born East Millstone, N. J.) 1924 C. E. Ohio Northern Univ. June to Sept. 1912 and May to Sept. 1913 Instrumentman, Baldwin Locomotive Works, East Chicago, Ind., survey, grading, etc., part of time in charge of work, earthwork computations, monthly estimates, etc.; location and construction of track and of concrete foundation for factory building, concrete inspection, etc. TT 2: SP 2. June 1914 to Jan. 1915 Res. Engr., W. S. Shields & Co., Cons. Engrs., Chicago Drainage Dist. near Sandwich, Ill., tile and open ditch work; also operation tests on Imhoff type sewage-disposal plant, inspection, alignment, grades, records, reports, TT 0.5: SP 0.5. Feb. 1915 to Aug. 1917 Field and Office Engr. with Arthur L. Webster, Mun. and Drainage Engr., County Surveyor, Wheaton, Ill., surveys, location, maps, plans, profiles, designs, estimates, specifications, reports, assessment roll work, construction, private and district drainage, county and city surveying, sewers, water, pavements. TT 2.5: P 2.5: RC 2: D 2.5. Aug. 1917 to June 1918 Res. Engr. with Stone & Webster, Boston, Mass., townsite development and industrial housing at Youngstown, Ohio, preparation of site, construction of sewer, water and gas systems with house connections; street and sidewalk work; rock excavation; records, unit costs, reports. TT 0.8: P 0.8: RC 0.8. June 1918 to June 1919 Asst. San. Engr., U. S. Public Health Service; 1st Lieut., grade of Asst. Surgeon, malaria control and general sanitation at cantonment and industrial zones, Camp Pike and Eberts Field, Ark., Charleston, S. C., charge of field activities part of time, records, reports, unit costs, etc. TT 1: P 1: RC 0.2. July 1919 to Jan. 1920 Res. Engr., Stone & Webster, construction of college buildings, St. Xavier, Cincinnati, Ohlo, location, excavation, concrete foundations, brickwork, concrete columns, flat slab and girder construction, light weight concrete floors and roof; supervision, inspection, records, unit costs, progress reports; design of small sewer system for college buildings. TT 0.5: P 0.5: RC 0.5. March 1920 to March 1921 Civ. Engr., Constr. Service, Q. M. Corps, Central Dept., U. S. Army, Chicago, utilities construction and repairs, building inspections and condition surveys, estimates, specifications, reports; sale of Camp Custer buildings; Principal under officer in charge. TT 1: P 1. March 1921 to May 1922 Civ. Engr. associated with real-estate office and building contractor, Maywood, Ill., surveys, plats, house plans, supervision of construction, sales; also special investigation for San. Dist. of Chicago re mosquito eradication; design of 1- and 2-story residences and store buildings. TT 1.2: P 1.2: RC 1.2. May 1922 to Jan. 1923 Asst. San. Engr., San. Dist. of Chicago, in charge of special sanitary work on mosquito eradication, Desplaines River valley. TT 0.7: P 0.7: RC 0.7. Jan. to Aug. 1923 highway engineering, DuPage County Highway Dept., Wheaton, Ill., as one of two principal engineers, field and office work, including surveys and plans for 35 miles of state aid roads (asphaltic and cement concrete), acted as Chf. of Party, Notekeeper, etc., setting balanced grade lines, earthwork, drafting. TT 0.6: P 0.6: RC 0.6. Aug. 1923 to Sept. 1924 Civ. Engr., Structural and Technical Bureau, Portland Cement Association, Chicago, some miscellaneous reinforced concrete design, library research in manufacture and uses of concrete, instructions for design and control of concrete mixtures according to Abram's Theory, correspondence on uses of cement and concrete, etc. TT 1.1: P 1.1: D 0.3. 1924 to date Graduate Student, School of Citizenship and Public Affairs, Syracuse Univ. (special 1 year course for City Mgr.). TT 11.9: SP 2.5: P 9.4: RC 6: D 2.7. Refers to L. M. Arms, H. C. Boyden, A. W. Dilling, W. D. Gerber, W. E. Hart, N. M. Stineman.

972 (14) BEAL, HERMAN, 1113 South 33d St., Omaha, Nebr. (Age 62. Born Holstein, Germany.) July 1881 to autumn 1882 Stakeman, Chainman and Rodman, 1882 to 1883 Asst. on Division, 1883 to 1885 in charge of various divisions (6 to 10 miles) of construction in Nebraska and Kansas, July 1885 to Jan. 1886 Transitman on locating party, and Jan. 1886 to July 1889 in charge of locating party, all for Burlington R. R. TT 5.5: RC 5.5: D 3.5. July 1889 to Feb. 1890 with Wyoming Pacific Improvement Co. of Pacific Short Line, in charge of locating party, TT 0.6: RC 0.6: D 0.6. Feb. 1890 to Feb. 1891 with Oregon & Washington Terminal R. R. in charge of locating party, TT 1: RC 1: D 1. 1893 to 1892 in charge of locating party, Burlington R. R. TT 1: RC 1: D 1. 1893 on city work, South Omaha, Nebr. 1894 to 1906 and 1912 to 1915 City Engr. of South Omaha. TT 15: RC 16: D 15. 1906 to 1910 County Surveyor, Douglas County, Nebr. TT 4: RC 4:

D 4. 1911 private engineering work. 1915 to 1921 Asst. City Engr., and May 1921 to date City Engr. of Omaha. TT 9.5: RC 9.5: D 9.5. TT 86.6: SP 36.6: RC 34.6. Refers to F. T. Darrow, R. H. Findley, H. V. Knouse, F. Riffle, E. M. Rohrbough.

in charge of reproduction of field mens; after July 1917 Reg 973 (9) BELL, CHARLES HINDMARSH, 831 Washington St., Michigan City, Ind. (Age 30. Born London, Ont., Canada.) 1916 graduated, Montreal Technical School (night classes). June 1912 to Sept. 1913 and Aug. to Dec. 1915 Instrumentman and Draftsman, Canadian Steel Foundries, Ltd., on foundry and rolling mill construction, and frogs and switches for street railways, Tr. 1.7. SP 1.7. Jan. to Sept. 1916 Draftsman, Darling Bros., Ltd., Montreal, on design and layout of elevators. TT 0.8. SP 0.8. Oct. 1916 to March 1917 Draftsman, New Welland Ship Canal, Sec. No. 1, final plans and estimates. TT 0.5: SP 0.5. April to Nov. 1917 Senior Draftsman, Canadian Aeroplanes, Ltd., Toronto, Ont., design of aeroplane parts on fuselage. TT 0.6: P 0.6. Nov. 1917 to Feb. 1918 Draftsman, Eastern Car Co., Ltd., New Glasgow, N. S., design of tools, dies and jigs. TT 0.3: P 0.5. March to Dec. 1918 Field Engr., U. S. War Dept., Watertown (Mass.) Arsenal, Scituate Proving Grounds, and Philadelphia (Pa.) Quartermaster's Terminal, field layout and supervision of buildings, roads, sewers and tunnels. TT. 0.8: P 0.8. Jan. to Aug. 1919 Designer of reinforced concrete buildings, Dept. of Public Works, Santo Domingo. TT 0.7: P 0.7: D 0.7. Oct. 1919 to July 1920 Asst. Constr. Engr., Tata Oil Mills Co., Ltd., Ernakulam, South India, in charge of installation of mill machinery. TT 0.8: P 0.8: RC 0.8. Aug. 1920 to April 1922 in private practice as Bldg. Contr., at Ernakulam, on construction of reinforced concrete buildings. TT 1.7: P 1.7: RC 1.7. May 1922 to May 1923 Res. Engr., Martin & Co., Calcutta, India, in charge of construction of office buildings and enlargement of fuel oil storage depot at Aden, Arabia for Shaw, Wallace & Co., Calcutta. TT 1.1: P 1.1: RC 1.1. June to Sept. 1923 Asst. Engr., Aden Port Trust, harbor survey and development. TT 0.3: P 0.3: RC 0.3. May 1924 to date with Pearse, Greeley & Hansen, Chicago, as Designer of reinforced concrete structures and at present Asst. Engr. on sewer construction at Michigan City, Ind. TT 0.5: P 0.5: D 0.2. TT 9.9: SP 3.1: P 6.8: RC 3.9: D 0.9. Refers to J. W. Bell, S. A. Greeley, P. Hansen, E. N. Lake, E. P. Thompson, A. L. Webster. work, depreciation deventory, and cross-sectioning track : ???

974 (11) BOURNE, JOSEPH BILBROUGH, 118 South 5th St., Alhambra, Cal. (Age 23. Born Philadelphia, Pa.) 1924 B. S. in C. E., Pa. State Coll. TT 2: SP 2. Refers to P. B. Breneman, R. R. Martel, R. O'Donnell, R. L. Sackett, F. Thomas, E. D. Walker.

975 (9) BOYER, CLARENCE LEONARD, 130 E. Harrison St., Maumee, Ohio. (Age 30. Born Butler, Ohio.) 1920 B. C. E., Ohio State Univ. June to Aug. 1915 Rodman, Cleveland, Cincinnati, Chicago & St. Louis Ry. TT 2.2. June 1916 to Nov. 1919 Private, etc., up to 1st Lieut., U. S. Army, Combat Troops, on Mexican Border and in World War; at present Capt. of Engrs., U. S. Army, O. R. C. TT 3.4. June 1920 to date with New York Central R. R., Toledo, Ohio, 1 year as Transitman; Surveyor, in charge of technical details of transit and level on surveys, track location and realignment, etc.; 2 years Instrumentman; Chf. of field parties on layout of tracks, various surveys; in charge of realignment of main track and technical details of maintenance on 800 miles of main track, detailing steel, concrete and wooden structures, such as derricks, buildings, towers for interlocking systems, train-sheds and shed canopies; in charge of readjustment of surveying instruments; since Aug. 1923 Asst. Engr. in responsible charge on construction; Engr. in direct charge of layout and construction of tracks and buildings, adzing and boring mills, on an addition to N. Y. C. R. System timber-treating plant at Nasby, Ohio (estimated cost \$58 450); Constr. Engr. for concrete scale pits for 150-ton track scales, and other concrete and brick structures, such as coal pits, retaining walls, sewers and pavements; made preliminary surveys for new location; redesign of wooden and steel bridges and trestles for heavier loadings; estimating material and costs of proposed works, tracks, buildings, maintenance and reconstruction. TT 4.2: RC 1: D 0.2. TT 9.8: RC 1: D 0.2. Refers to D. B. Chapin, E. D. Keil, F. S. Merrill, V. R. Phillips, C. L. Sawyer, A. H. Smith.

976 (14) BOYNTON, CHARLES OTIS, 3524 Baltimore Ave., Kansas City, Mo. (Age 37. Born Ames, Iowa.) 1908 B. S. in C. E., Kans. State Univ. July to Aug. 1908 Instrumentman, City of Pasadena, Cal. TT 22: SP 22. Oct. 1908 to July 1909 Instrumentman and Draftsman, Kansas City, Kans. TT 0.7: SP 0.7. Aug. 1909 to May 1912 Jun. Engr., U. S. Engr. Dept., Topographic Survey of Island of Luzon, Philippine Islands, preparation of polygonic sheets, triangulation computation, etc. TT 28: P 28: RC 08. Nov. 1913 to May 1914 Res. Engr., Cudahy Refining Co., Coffeyville, Kans., laying out building and machinery foundations, still and condenser column footings, and design and construction of

refinery drainage system. TT 0.5: P 0.5: D 0.1. May 1914 to Jan. 1916 and July 1917 to May 1920 Jun. Engr., U. S. Engr. Dept., until Jan. 1916 as Chf. of survey party, made topographic and hydrographic survey of 90 miles of San Joaquin River and later in office in charge of reproduction of field maps; after July 1917 Res. Engr. in charge of field office on Sacramento and San Joaquin Rivers; submitted monthly estimates of dredging. TT 4.5: P 4.5: RO 3.8. July 1920 to Aug. 1922 city surveying in Kansas City, Mo., private practice. TT 2: P 2. Sept. 1922 to May 1923 and Nov. 1923 to May 1924 Asst. Engr., Clark E. Jacoby Eng. Co., on drainage, flood control and bank protection. TT 1.2: P 1.2: RO 0.5: D 0.1. May to Nov. 1923 County Engr. of Gove County, Kans., in charge of road work. TT 0.5: P 0.5: RO 0.4: D 0.1. May 1924 to date Asst. Engr. with E. C. L. Wagner. Federal aid road plans. TT 0.5: P 0.5: RO 0.2. TT 14.9: SP 2.9: P 12: RO 5.7: D 0.3. Refers to E. B. Black, W. T. Brooks, R. L. Egenhoff, C. E. Jacoby, E. C. L. Wagner.

977 (1) BROOKS, ROBERT EDWARD, Airmont Ave., Ramsey, N. J. (Age 35. Born New York City.) June 1914 to Jan. 1916 Sales Engr., Western Reserve Steel Co., Sheet Steel Mirs., Warren, Ohio. TT 1.5: P 1.5. Jan. 1916 to Sept. 1921 Treas. in charge of purchases, Bennett & Brooks, Inc., Jobbers in Constr. Materials, New York City. TT 5.7: P 5.7: R0 5.7. Sept. 1921 to Aug. 1923 Inspector of Constr., New York Edison Co., New York City. TT 2: P 2: RC 2. Aug. to Oct. 1923 Structural Designer, Elec. Bond & Share Co., New York City. TT 0.2: P 0.2: D 0.2. Oct. 1923 to Feb. 1924 structural designing and detailing, Fagan Iron Works, Jersey City, N. J. TT 0.3: P 0.3: D 0.3. Feb. to Aug. 1924 structural designing and drafting, Western Elec. Co., New York City. TT 0.5: P 0.5: D 0.5. Aug. 1924 to date Structural Engr., appraisal work, J. S. Murrie & Co., New York City. TT 0.2: P 0.2. TT 0.3: P 10.3: RC 7.7: D 1. Refers to E. E. Baptiste, V. T. Boughton, G. B. Cornell, J. H. Gaynor, R. B. Wolff.

978 (15) BUNN, PAUL KING, Richmond, Tex. (Age 33. Born Buffalo Grove, Iowa.) 1914 B. S. in C. E., Univ. of Kans. June to July 1914 Chainman, Chicago, Rock Island & Pacific Ry. TT 2.1: SP 2.1. July 1914 to Oct. 1917 Jun. Civ. Engr., Chainman, Asst. Computer, Computer and Recorder, Bureau of Valuation, Interstate Commerce Comm., railway valuation, field work, depreciation inventory, and cross-sectioning track. TT 3.2: SP 1: P 2.2. Oct. 1917 to Jan. 1919 Private-2d Lieut., 29th Engrs., U. S. Army, topographic maps, road making and intelligence work. TT 1.3: SP 1: P 0.3. Jan. to Nov. 1919 Senior Civ. Engr., Bureau of Valuation, Interstate Commerce Comm., on railway valuation. TT 0.8: P 0.8. Nov. 1919 to Aug. 1920 Draftsman, Leavenworth County, Kans., designed concrete roads for Federal Aid work and reinforced bridges, culverts and piers. TT 0.8: P 0.8: D 0.8. Aug. to Nov. 1920 Res. Engr., Wyandotte County, Kans., had charge of Federal Aid concrete road and bridge construction. TT 0.3: P 0.3: RC 0.3. Nov. 1920 to Jan. 1922 Asst. Res. Engr., Leavenworth County, had charge of 6 miles Federal Aid concrete road construction, grading, culverts and slab. TT 1.2: P 1.2: RC 1.2. Jan. to March 1922 Res. Engr., V. V. Long & Co., in charge of paving and sewer construction, Wynnewood and Pauls Valley, Okla. TT 0.3: P 0.3: RC 0.3. March 1922 to Sept. 1924 with Missouri Valley Bridge & Iron Co., as Timekeeper (1 month), Dumas, Mo., piers across Des Moines River; Res. Engr. on thirteen pneumatic piers across Columbia River, Kennewick, Wash., and on eleven piers across Rigolets, La.; Supt. on two pneumatic piers and repairs on others, Guthrie, Okla., and on two pneumatic piers, Brazos River, Richmond, Tex.; Supt. and Res. Engr. on twelve pneumatic piers and 1 500 lin. ft. 70-ft. sheet piling, Canadian, Tex. TT 2.5: P 2.5: RO 1. TT 12.5: SP 4.1: P 8.4: RC 2.8: D 0.8. Refers to J. G. Bloom, W. V. Buck, L. M. Bush, E. H. Connor, F. Helm, C. S. Jones, G. N. Kelley.

979 (10) BURLESON, CARL EDWARD, Clearwater, Fla. (Age 37. Born Unicoi, Tenn.) Jan. 1904 to Aug. 1905 Chainman, Norfolk & Western Ry.; part of time on inspection of masonry abutments and tunnel excavations. TT 1.7; SP 1.7. Aug. 1905 to Jan. 1906 Rodman and Instrumentman, and June to Sept. 1906 Instrumentman, Carolina, Clinchfield & Ohio Ry. TT 0.6: SP 0.6. Jan. 1906 to June 1908 student, Milligan Coll., Johnson City, Tenn. June to Sept. 1907 Rodman on various work at Johnson City. TT 0.4: SP 0.4. June to Sept. 1908 on location of electric interurban line from Johnson City to Elizabethton, Tenn. (13½ miles); compiled data with reference to cost of building and putting road in operation. TT 0.2: P 0.2. Sept. 1908 to June 1910 in private practice, at Sanford, Fla., surveys and subdivisions; engineering work in connection with large development of South Florida Land & Development Co. of Cincinnati, Ohio. TT 1.7: P 1.7: Sept. 1910 to April 1911 land and subdivision surveys for Pinelias Groves Estates in Pinelias and Hernando Counties, Fla. TT 0.6: P 0.6. April to Oct. 1911 in private practice in Tennessee, installed hydraulic ram and water system in 4-story dormitory. TT 0.5: P 0.5. Oct. 1911 to Feb.

1912 general engineering work for South Florida Eng. Co., Sarasota, Fla., in charge of field party on land, drainage and city surveys. TT 0.3: P 0.3: RO 0.3. Feb. 1912 to Sept. 1917 Chf. Engr., St. Petersburg & Gulf Ry. Co., St. Petersburg Elec. Co. and St. Petersburg Investment Co., in charge of trolley-line surveys, power-house foundation work, channel surveys and construction, sea-wall design and construction and general engineering problems; also made preliminary survey across Tampa Bay for Gandy Bridge location. TT 5.7: P 5.7: RC 5.7: D 5.7. Sept. 1917 to date County Engr., Pinellas County, in charge of road and bridge construction; since Dec. 1923 in charge of construction of large road building program, involving building of 90 miles of paved roads and 20 concrete arch bridges. TT 6.7: P 6.7: RO 6.7: D 6.7. D 6.7. TT 18.4: SP 2.6: P 15.8: RC 12.7: D 12.4. Refers to C. C. Brown, C. A. Browne, G. E. Heller, G. B. Hills, E. Kitchen, R. G. Ridgely.

980 (13) CALDER, GEORGE J, Box 477, Crockett, Cal. (Age 40. Born Sonora, Cal.) 1909 B. S., Univ. of Cal. 1909 to 1915 Designing and Constr. Engr., Ransome Concrete Co., at San Francisco and Sacramento, design of concrete and steel-frame buildings and structures, construction of buildings as Supt. in charge of work. TT 8: SP 2: P 6: RC 3: D 3. 1915 to 1920 with City of Sacramento on design of flood control project (Sacramento By Pass); Supt. of Constr. on various school buildings, ilbrary, Hall of Justice and sanitary and storm sewer installation; also structural designing for architects on steel, frame and concrete buildings. TT 5: P 5: RC 3: D 2. Jan. 1920 to April 1922 Structural Engr., and June 1922 to Oct. 1923 Res. Engr., Sacramento Filtration Plant; until April 1922 also structural designing on buildings for architects. TT 3.6: P 3.6: RC 1.3: D 2.3. Oct. 1923 to date Res. Engr., Carquinez Highway Bridge, American Toll Bridge Co. TT 1: P 1: RC 1. TT 17.6: SP 2: P 15.6: RC 8.3: D 7.3. Refers to C. Derleth, Jr., D. H. Duncanson, H. B. Foster, A. Givan, C. G. Hyde.

981 (3) CARLTON, GUY WILLIAM, Fidelity Bldg., Buffalo, N. Y. (Age 47. Born Lietchfield, Ky.) 1904 Ph. B., Sheffield Sci. School. July 1904 to Feb. 1906 with Jas. Stewart & Co., Contrs., 1 year as Field Engr., construction of manufacturing plant of Singer Mfg. Co., St. Johns, Que., Canada, then Designing Engr., Allis-Chaimers Plant, West Allis, Wis., in office at Pittsburgh, Pa. TT 3.6: RC 1: D 0.6. Feb. 1906 to April 1908 Designing Engr. and Estimator, Jas. Stewart & Co., New York, 2 months in Galveston, Tex., making soundings and designing causeway from Texas Mainland to Galveston Island. TT 2.2: RC 1: D 1.2. April 1908 to June 1909 Field Engr., Washington Terminal Station, Washington, D. C., surveys and locations of buildings and structures. TT 1.2: RC 1: D 0.2. June 1909 to Aug. 1910 Constr. Engr. and Supt. on New York Central roundhouse, etc., at Rensselaer, N. Y., and on Sage Laboratory for Rensselaer Polytechnic Inst., Troy, N. Y. TT 1.2: RC 0.8: D 0.3. Aug. 1910 to April 1913 with Jas. Stewart & Co., 2 months as Designing Engr. and Estimator, at New York; then Mgr., Canadian office, Montreal, Canada, had executive charge of addition to Chateau Frontenac, Quebec, Place Vigor Hotel, Montreal, construction of Hotel McDonald, Edmonton, Alberta, etc. TT 2.6: RC 2.4: D 0.2. April 1913 to Oct. 1915 Estimator and Designing Engr., Geo. A. Fuller Co., in New York, Cleveland and Detroit. TT 2.5: RC 2: D 0.5. Oct. 1915 to March 1918 Civ. Engr. and Branch Office Mgr., Hunkin-Conkey Constr. Co., Cleveland and Toledo, Ohio. TT 2.5: RC 1.5: D 1. March 1918 to June 1919 Major, Constr. Div., U. S. Army, in charge of construction of temporary office buildings for Ordnance Dept., Surgeon Gen. Dept. and Dept. of Military Aeronautics, Washington, D. C., Camp Humphreys, Camp Eustis, various government defense plants, experimental and flying fields and air nitrate plants. TT 1.2: RC 0.7: D 0.5. June 1919 to date Chf. Engr. and Vice-Pres. in charge of engineering, The John W. Cowper Co., Inc., Buffalo. TT 5.3: RO 5.3. TT 22.2: RC 15.8: D 4.4. Refers to J. W. Cowper, F. L. Cranford, F. M. Gunby, R. C. Marshall, Jr., H. E. Plumer, S. J. Stone, M. J. Whitson.

982 (13) CARNEY, GEORGE FRANCIS, 1661 Leavenworth St., San Francisco, Cal. (Age 26. Born San Francisco, Cal.) 1918 graduated from California School of Mechanical Arts. March 1918 to Sept. 1922 Draftsman in Line Dept., Pole Line Inspector, Western Union Telegraph Co., San Francisco, Cal. TT 4.5: SP 4.5. Sept. 1922 to Sept. 1923 Draftsman and Supt., Roentgen App. Co. TT 1: SP 0.9: P 0.1: RC 0.1. Sept. to Nov. 1923 and Dec. 1923 to Sept. 1924 Draftsman with Alfred P. Fisher, Cons. Engr., San Francisco. TT 0.9: SP 0.9. Dec. 1923 Draftsman with John B. Leonard, San Francisco. TT 0.1: SP 0.1. Sept. 1924 to date Draftsman with County Surveyor, Alameda County, Cal. TT 0.1: SP 0.1. TT 6.6: SP 6.4: P 0.1: RC 0.1. Refers to N. D. Baker, M. C. Collins, A. P. Fisher, H. B. Hammill, J. B. Leonard.

983 (1) CULLEY, EARL CLIFTON, 622 West 114th St., New York City. (Age 31. Born Madison Station, Miss.) 1922 B. S., N. Y. Univ. Sept. 1912 to June 1913, Sept. 1915 to Dec. 1917 and Sept. 1919 to June 1922 student, Univ. of Mississippi (1 year), Mississippi Agricultural Coll. and New York Univ. June 1913 to Sept. 1915 Transitman on preliminary survey of public highway near Jackson, Miss. (about 4 months); Lumber Yard Clerk, Central Lumber Co. of Jackson, and (part of time) on farm and Carpenter. TT 2.3; SP 2.5. Dec. 1917 to Aug. 1919 on U. S. S. Galveston, U. S. Navy, keeping record of engineering equipment, coal burned, etc. TT 1.7; SP 1.7. Aug. to Nov. 1922 Gen. Utility Engr., Standard Oil Co. of New Jersey, Bayway (N. J.) Refinery, checking bills of materials, keeping draftsmen's time, filing, etc. TT 0.3; SP 0.3. Nov. 1922 to April 1924 Transitman and Asst. to Chf. Engr., Wulff Eng. Co., Tarrytown, N. Y., had charge of tax maps, real-estate transfers, also with survey parties. TT 1.5; SP 0.5; P 1; RC 1. April-Sept. 1924 estimating and checking estimates, U. S. Gypsum Co., New York City, taking off roof areas, partition wall areas, reading plans and steel layouts, designing roof slabs of gypsum (monolithic construction). TT 0.4; SP 0.3; P 0.1; RC 0.1; D 0.1. TT 6.3; SP 5.2; P 1.1; RC 1.1; D 0.1. Refers to W. S. L. Cleverdon, J. H. Dorroh, A. Haring, E. G. Hooper, D. C. Nolan, Jr., C. T. Schwarze, C. H. Snow.

984 (14) CUTTS, FRANCIS THACHER, 12 Aberdeen Pl., St. Louis, Mo. (Age 44. Born Hannibal, Mo.) 1902 B. S. in C. E., Washington Univ., St. Louis, Mo. July 1902 to Jan. 1904 Rodman and Draftsman, Consolidated Coal Co. of St. Louis, on surveys. TT. 3.5. March 1904 to May 1914 with Distribution Sec., Water Div., City of St. Louis, until June 1907 as Second Asst. Engr., Instrumentman on pipe-line surveys, drafting, estimating, etc.; then First Asst. Engr. in charge of pipe-line contracts, laying out and estimating new pipe lines; in charge of Maintenance Forces including repairs to pipes and appurtenances, and of Municipal Testing Laboratory; after March 1911 Engr. in Chg., responsible charge of the entire Section, designing all extensions, buildings, etc. TT 10.2: RC 6.9: D 6.9. May 1914 to date Asst. Water Commr., City of St. Louis, until 1917 in general charge of office with close supervision over Distribution Sec.; since then general supervision of supply, purification and pumping, including extensions and construction; supervising, designing new \$12 000 000 water-works for the City. TT 10.4: RC 10.4: D 10.4. TT 24.1: RC 17.3: D 17.3. Refers to A. P. Greensfelder, B. B. Hodgman, E. R. Kinsey, G. F. Maitland, W. E. Rolfe, J. L. Van Ornum, E. E. Wall.

985 (1) DAVIN, JOSEPH WILLIAM, 356 Ovington Ave., Brooklyn, N. Y. (Age 22. Born Hoboken, N. J.) 1923 C. E., Rens. Pol. Inst. Sept. 1923 to June 1924 Instructor in Dept. of Technical and Rational Mechanics, Rensselaer Polytechnic Inst. July 1924 to date Jun. Asst. Engr., Grade 1, New York State Highway Dept., Div. 5, Binghamton, N. Y. TT 3. Refers to E. R. Cary, L. W. Clark, T. R. Lawson, P. C. Ricketts, W. W. Rousseau.

986 (11) FILES, EARL LUFKIN, R. D. 1, Box 1520, West Los Angeles, Cal. (Age 24. Born Fall River, Mass.) Oct. 1918 to July 1919 and Oct. 1920 to July 1921 student in Civ. Eng., Stanford Univ. Aug. to Nov. 1919 Office Asst., and March to Oct. 1920 Field and Office Asst. with Edward A. Southworth, Sacramento, Cal. Nov. 1919 to March 1920 Rodman, California State Highway Comm. Aug. 1922 to date Chainman, Draftsman and Topographer with W. Woodard, West Los Angeles, Cal. TT 4: SP 4. Refers to J. C. L. Fish, C. D. Marx, H. D. Severance, E. A. Southworth, W. Woodard.

987 (13) FOX, HAROLD KINNE, San Joaquin Light & Power Corporation, Fresno, Cal. (Age 34. Born Rome, N. Y.) 1913 B. S. in C. E., Clarkson Coll. of Eng. Prior to graduation (over 1 year) in Div. Engr.'s office, Binghamton, N. Y., and June to Sept. 1913 with New York State Highway Dept. as Engr. in charge of brick paving (\$49 000). TT 2.3: SP 2.3. Sept. 1913 to Jan. 1915 with Canadian Pacific R. R., as Transitman, reconstruction and maintenance, field and office, small amount of simple design, next in charge to Res. Engr. TT 1.3: SP 1: P 0.3. Jan. 1915 to Jan. 1916 with Hanawa Falls Power Co., Potsdam, N. Y., as Field Engr. on location and construction of steel-tower transmission line; Supt., construction of water line across Grass River at Massena, N. Y. TT 1: SP 0.5: P 0.5. Jan. to Aug. 1916 with Darrell Condley, Contr., as Field Engr. on 6-story reinforced concrete warehouse, San Pedro, Cal. TT 0.6: SP 0.6. Aug. 1916 to Sept. 1917 with Southern California Edison Co., Big Creek, Cal., field office, Asst. to Gen. Foreman and later Asst. Res. Engr., designed gravel and crushing plants, construction of layouts, etc., raising three gravity dams, definite responsibility for certain materials and equipment, TT 1: SP 0.9: P 0.1: D 0.1. Sept. 1917 to July 1919 1st Lieut., Engrs., U. S. Army, in charge construction camp at Occoquan, Va., for 28th Engrs.; Adjt., 2d Battalion, 11 months in France, building and operating crushing plants and quarries; in charge reconstruction and maintenance road work in San Mihiel and Argonne. TT 1.8: SP 0.8: P 1. July 1919 to date with San Joaquin Light & Power Corporation, construction of hydro-electric plants; Res. Engr., construction Kerckhoff power house, penstock and part of tunnel (50 000 hp., \$6 000 000 project), work included superintendence, inspection and field design, checking and revision of principal designs, engineering tests, etc.; in charge investigation and design of Tule River water conduit; in charge of investigation, economics, reports, design and construction of 12 miles of water conduits in Crane Valley System; in complete charge as Supt. and Res. Engr. of construction of Kern Canyon Project (15 000 km., \$2 000 000, built in 1 year), directed redesign of several designs, responsible for methods and costs of construction, Kings River Project, ultimate development 450 000 hp., since May 1923 in full charge of Constr. Dept. (to which investigation, design and construction of this project is entrusted); prior to May 1924 (over 1 year) had charge of the department under direction of R. C. Starr. TT 5.2: P 5.2: RC 4. D 1.2. TT 13.3: SP 6.1: P 7.1: RC 5: D 1.3. Refers to J. P. Brooks, E. Hyatt, Jr., E. Newman, D. H. Redinger, D. R. Schock, G. Swendsen, F. M. Thebo.

988 (1) GOODE-SMITH, WALTER MOSES, "Handsworth", Third St., Canterbury, Sydney, N. S. W. (Age 21. Born Birmingham, England.) Feb. 1920 to date student, Tech. Coll., Sydney. Aug. 1917 to July 1919 Draftsman, G. L. Grant, Archt. and Cons. Engr., Sydney. TT 1.9: SP 1.9. Aug. 1920 to May 1921 Draftsman, H. R. Mead, Archt., Sydney. TT 0.7: SP 0.7. May 1921 to Sept. 1922 Draftsman, etc., Messrs. Wunderlich, Ltd. TT 1.4: SP 1.4. Sept. 1922 to date Draftsman and Asst., Wm. Lamrock, Local Govt. Engr. to the Municipality of Drummoyne, N. S. W., and Pres., Inst. San. E. Exam. Board for N. S. W. and A. Lanyon Clark, Archt. and Con. Engr.; since July 1921 also with 2d Div., Field Engrs., Australian Military Forces (Milita); Aug. 1923 Commissioned Lieut., 14th Field Co. TT 1.7: SP 1.7. TT 5.8: SP 5.8. Refers to P. Allan, C. F. Blain, A. J. R. Frew, J. J. Greene, D. B. Steinman.

989 (8) GORMAN, ARTHUR ELLSWORTH, 6544 North Talman Ave., Chicago, Ill. (Age 32. Born Haverhill, Mass.) 1917 B. S. in Civ. Eng., Worcester Pol. Inst. June 1916 to Aug. 1917 Asst. Chemist, Worcester Sewer Dept. TT 3.2: SP 2: P 1.2. Nov. 1917 to May 1919 Asst. San. Engr., U. S. Public Health Service, Washington, D. C., over 1 year assisted in rural sanitation work, and directed malaria control work in Ft. Ogelthorpe, Ga.; then directed installation of can-type sewerage system at Columbus, Ga. TT 1.5: P 1.5: RC 1.2: D 0.1. Aug. to Dec. 1919 San. Engr., International Health Board, New York City, on special malaria surveys in various places in Virginia, and in Bamberg, S. C. TT 0.4: P 0.4. Jan. 1920 to Jan. 1924 Asst. San. Engr., U. S. Public Health Service, about ¾ year as Acting State San. Engr., Kentucky State Board of Health, Louisville, Ky.; then on sanitary surveys of water supplies used as sources for water on interstate railroads in New England, and last 3 years Dist. Engr. in charge, Interstate San. Dist. No. 3 (Ohio, Indiana, Illinois, Wisconsin and Michigan, also Great Lakes and St. Lawrence River). TT 3.9: P 3.9: RC 3.5: D 0.4. Jan. 1924 to date Chf. San. Engr., Dept. of Health, Chicago, Ill., in charge of water supply, chlorination control; Chf., Bureau of San. Eng. TT 0.7: P 0.7: RC 0.7. TT 9.7: SP 2: P 7.7: RC 5.4: D 0.5. Refers to C. B. Ball, H. F., Ferguson, A. W. French, L. Pearse, S. Pincus, H. W. Streeter.

990 (1) GUARDIA, TOMAS, Panama City, Panama. (Age 38. Born Anton, Panama.) 1909 B. E., Univ. of Liverpool, England. 1909 to 1911 Asst. Engr. with Sir John Jackson, Ltd., of London, England, building 20 000-ton concrete dry dock, dredging and general improvements to Port of Ferrol, Spain. TT 3.2: SP 2: P 1.2: D 0.2. 1911 to 1912 Asst. Engr., Govt. of Panama, Dept. of Public Works, planning and laying out town of Almirante; surveying and building Puerto-Obaldia-Anton sand clay road; designing and building Puerto Obaldia reinforced concrete wharf. TT 2: P 2: RC 2: D 0.5. 1913 to 1914 Asst. Engr., R. W. Hebard & Co., Inc., of Panama and New York, railway surveys, building design and construction. TT 1.5: P 1.5: D 0.2. 1914 to 1916 Managing Director and Engr., La Esperanza-Compania Industrial Nacional (now Diaz, Muller & Arosemena), design, erection and operation of steam laundry and ice plant. TT 1.5: P 1.5: RC 1.5: D 0.2. 1916 to 1919 Asst. Engr., Compania Panamena de Fuerza y Luz (Elec. Bond & Share Co. of New York), hydro-electric investigations and surveys, steam electric and oil electric design, erection and operation. TT 3: P 3: RC 1: D 0.5. 1919 Contr., Enrique Halphen & Co., Inc., of David, Panama, design, erection and operation of oil electric 2 300-volt, 75-kw. plant and transmission system. TT 1: P 1: RC 1: D 0.1. 1920 to 1921 Engr., Panama Sugar Co., design and erection of 1 000-ton sugar mill, survey, construction and operation of railroad. TT 1.5: P 1.5: RO 0.5: D 0.2. 1921 to 1923 Engr. and Supt., R. W. Hebard & Co., Inc., surveys, location and construction of highways. TT 2.2: P 2.2: RC 1.2: D 0.2.

1923 to date Chf. of Party and Div. Engr., Junta Central de Caminos, Panama, Engr. in charge of surveys and location; at present in charge of construction (about 180 km.). Recently Member of Pan-American Highway Comm. TT 1.2: P 1.2: RC 1.2: D 0.2. TT 17.2: SP 2: P 15.2: RC 8.5: D 2.6. Refers to M. E. Gilmore, E. B. Gore, R. C. Hardman, E. P. Haw, R. W. Hebard, R. K. West, E. W. Wilson.

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991 (2) HEDLUND, WILLARD, 25 Foster St., Worcester, Mass. (Age 37. Born Hagfors, Sweden.) 1910 B. S. in Civ. Eng., Worcester Pol. Inst. June 1910 to June 1913 Instructor in Civ. Eng., Worcester Polytechnic Inst. TT 4.6. July to Sept. 1910 and June to Sept. 1911 Structural Designer, Central Bldg. Co., Gen. Contrs., Worcester, Mass. Sept. 1912 to Sept. 1917 Instructor in Mathematics and Physics in Evening Classes of Northeastern Preparatory School, Worcester, and Sept. 1917 to date Principal of this school. Sept. 1918 to date Associate Dean of Eng. School, Northeastern Evening Eng. Inst. June 1913 to date Asst. Mgr. of Constr., Edward F. Miner Bldg. Co., Gen. Contrs., Worcester; Member, Board of Directors (1924). TT 11.5 RC 9: D 7. TT 16.5: RC 9: D 7.4. Refers to C. M. Allen, A. W. French, S. Lund, E. F. Miner, L. W. West.

992 (14) HUDSON, WILLIAM DOUGLAS, 712 Compton Bldg., St. Louis, Mo. (Age 44. Born Rockbridge, Ill.) 1907 B. S., Civ. Eng. course, Univ. of Wis. 1901 to 1909 Rodman. James Stewart & Co. (6 months); Topography Recorder and Instrumentman, U. S. War Dept. (1 year); Rodman, Missouri Pacific Ry. (1 year); Topographer, Missouri, Kansas & Texas Ry. (1 year); Detailer and Designer, Southwestern Bridge Co., mill buildings and highway bridges (6 months); Asst. City Engr., Joplin, Mo., Draftsman, Instrumentman and Inspector (nearly 9 months); Asst. City Engr., Atoka, Okla., Draftsman and Office Engr. (6 months); Estimator, Designer, Corrugated Bar Co., buildings and light bridges (6 months). TT 7.7: RC 1.5: D 0.7. 1910 to 1917 Chf. Draftsman, Bridge Dept., and later Asst. Bridge Engr., Missouri Pacific R. R. Co., designed, detailed and wrote specifications for steel structures, plain and reinforced concrete retaining walls, slab and girder bridges, etc.; computed stresses in grain bins, water tanks, etc.; designed and supervised detailing of floating equipment, also of bridges and retaining walls of Tower Grove Grade Crossing Elimination Project, St. Louis, Mo., and wrote the specifications; made several original graphic charts facilitating design of concrete slabs, buttressed and cantilever retaining walls, and wooden beams; designed and supervised construction of small air-compressor plant for train line, cinder hoist and shop; inspected work under way; made special investigation and report on necessity of movable span in Gasconade River Bridge, and on safety of other bridges; designed false-work for steel bridges and arches; made sinking diagram and designed timber and concrete work of repairs to pier of Little Rock Junction Bridge. TT 7: RC 7: D 7. 1917 to 1919 at Infantry Officers' training camp, Ft. Sheridan (nearly 4 months); 1st Lieut., Infantry, U. S. Army, Battalion Adjt., 3rd Bn., 344th Inf.; later Executive Officer, D. Co., 344th Inf.; taught field fortifications and directed training of troops in United States and France; about 8 months on special duty with engineers in charge of camp water supply, supply officer and maintenance of roadway and equipment of camp railroad at Le Mans; designed and supervised construction of delousing plant. 1919 to 1922 Prin. Asst. Engr., C. E. Smith & Co., design of reinforced concrete and steel structures, appraisals, investigation of railroad terminals. TT 3.4: RC 3.4: D 3.4. 1922 to 1924 Associate Engr. to Harland Bartholomew, made railroad transportation studies and reports, and plans for gradecrossing elimination in various cities, work including Pittsburgh, Pa., railroads, waterways; Memphis, Tenn., railroads, grade crossings, harbor facilities, recommendations for their future development; special study of river-front treatment; Toledo, Ohio, analysis and report of railroad terminal operation; study of Toledo harbor and plans for development, with estimates of cost; presented case of city for increased harbor appropriation; made general plans for eliminating grade crossings with estimates of cost; also industrial surveys of latter two; Evansville, Ind., railroad study, grade-crossing elimination and special report on advisability of building extensive river terminals, and similar work in numerous other cities; at Los Angeles, Cal., estimated cost of street widening projects, tunnels, viaducts, etc. (total cost \$57 000 000); as Cons. Engr., associated with Harland Bartholomew, made survey and location plan, preliminary design and estimate of cost of proposed Harding Memorial Bridge for Toledo (estimated cost \$2 600 000); Consultant for Grand Rapids, Mich., and making plans for Franklin St. viaduct (estimated cost \$275 000) and other grade-crossing elimination projects. TT 2: RC 2: D 2. TT 21.3: RC 15.5: D 13.1. Refers to B. L. Brown, W. C. Curd, G. S. Davison, E. A. Hadley, W. Haydock, F. G. Jonah, F. E. Turneaure.

993 (6) HUMPHREYS, CHARLES WESLEY, Montgomery, W. Va. (Age 28. Born Shelly, W. Va.) May 1914 to Sept. 1919 Estimator, Supt. and in charge of office of J. W. Smoot, Gen. Contr., Roanoke Rapids, N. C., schools, cotton mills, warehouses, stores and apartments,

TT 5.8: SP 3: P 2.3: RC 2.3. March 1920 to Jan. 1921 Supt. of Constr., Wise Granite & Constr. Co., Richmond, Va., tobacco re-drying plant, Williamston, N. C., and paper mill, Richmond. TT 09: SP 0.3: P 0.6: RC 0.6. March 1921 to Nov. 1923 Estimator and Supt. of Constr. with D. J. Phipps, Gen. Contr., Roanoke, Va., on all classes of building construction. TT 2.7: P 2.7: RC 2.7. Nov. 1923 to date Supt. of Constr., Harrison Constr. Co., Petersburg, Va., gymnasium, and Masonic Temple, at Montgomery, W. Va. TT 1: P 1: RC 1. TT 9.9: SP 3.3: P 6.6: RC 6.6. Refers to J. T. Chase, R. P. Coble, H. A. Davies, E. S. Humphreys, S. Quattlebaum.

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994 (4) JENNE, LYLE LOREN, 6341 Burbridge St., Germantown, Philadelphia, Pa. (Age 36. Born Enosburg Falls, Vt.) 1909 B. S. in Chemical Eng., Univ. of Pa. Sept. 1909 to June 1910 Asst. Chemist, Bureau of Surveys, sewage disposal, Philadelphia Experiment Station, sewage and sludge analysis and special experiments. TT 2.7: SP 2: P 0.7. Aug. 1910 to Dec. 1911 Asst. Chemist and Bacteriologist, in charge of laboratory work, sewagedisposal investigations, City of Pittsburgh, chemical and bacteriological analyses and sanitary TT 1.4: P 1.4: RC 1.4. June to Nov. 1912 Statistical Engr., Transit Comm., Philadelphia, developed time-saving maps, and statistical work. TT 0.5: P 0.5. Dec. 1912 to Jan. 1917 Engr. in charge of filter records, Bureau of Water, Philadelphia, filter studies, preparation and analysis of data; 10 months Acting Filter Supt. TT 4.1: P 4.1: RC 4.1. Feb. 1918 to Jan. 1921 Chemist in charge of laboratory, Bureau of Water, chemical and bacteriological analysis of water and sewage; investigations of problems dealing with quality of water; Cons. Chemist, Holmesburg Water Co. TT 2.7: P 2.7: RC 2.7. Jan. 1921 to date San. Engr., Bureau of Water, directs and interprets work of laboratory, exercises chemical and bacteriological control of filtration system; Consultant on filter operation, Consultant various water companies. TT 3.9: P 3.9: RC 3.9. TT 15.3: SP 2: P 13.3: RC 12.1. Refers to C. E. Davis, G. H. Shaw, C. H. Stevens, W. L. Stevenson, S. M. Van Loan, I. S. Walker, G. C. Whipple.

995 (1) JOLY, CHARLES LEVEGUE, 69 West 11th St., New York City. (Age 38. Born New Orleans, La.) 31/2 years student, C. E. and M. E. courses, Columbia Univ. Feb. to June 1906 Asst. Engr., line and grade work, Penna., N. Y. & L. I. R. R. TT 1.5: SP 1.5. June 1906 to Jan. 1907 Shield Inspector, and Jan. to May 1907 Heading Foreman, Pennsylvania Tunnels. TT 0.9: SP 0.5: P 0.4: RC 0.4. May to Oct. 1907 Div. Engr., evaluation, New York, New Haven & Hartford R. R. TT 0.4: P 0.4: RC 0.4. Oct. 1907 to May 1908 Chf. of Div. of Buoys and Beacons, Lighthouse Dept., Cuba, in charge of beaconing south coast, Cuba. TT 0.6: P 0.6: RC 0.6. May 1908 to May 1909 Supt., highway construction, Pinar del Rio to Guana, Cuba, for T. L. Huston Contr. Co. TT 1: P 1: RC 1. May 1909 to Feb. 1912 Gen. Contr., Cuba, sewage disposal, water supply, lighthouse and highway construction, water-power development, residence construction, TT 2.8: P 2.8: RC 2: D 0.8. Feb. 1912 to May 1917 Designer to Supt. Constr. of coal-gas plants, operation of plants for Didier March Co. TT 5.3: P 5.3: RC 4.3: D 1. May 1917 to June 1922 Capt., 11th Engrs., Major, Engrs., Lt.-Col., Chemical Warfare Service, Military Attaché, Spain, Military Commr. TT 5.1: SP 2: P 3.1: RC 2. June 1922 to date Technical Director, to Hungary. Turbomotor Patents, Ltd., design, construction and operation gasoline turbines, motor car plants. TT 2.3: P 2.3: RC 1.3: D 1. TT 19.9: SP 4: P 15.9: RC 12: D 2.8. Refers to J. H. Brace, H. W. Edwards, F. E. Lawrence, F. Mason, J. F. Stevens.

996 (1) KEATING, EDMUND BERNARD, U. S. Navy Yard, Pearl Harbor, Hawaii. (Age 36. Born Salem, Mass.) 1909 B. S. in C. E., Univ. of Maine. June to Sept. 1907 Transitman on surveys for sewerage system and general municipal engineering, and June to Sept. 1908 Transitman and Inspector on concrete sewer construction, with City Engr., Salem, Mass. July to Nov. 1909 with Peaks Island Water Co., Portland, Me., in charge of survey of existing water system. TT 2.3: RC 0.3. Nov. 1909 to Jan. 1910 with Portland (Me.) Elec. Co., in charge of surveys for location and construction of transmission line (23 miles long). TT 0.2: RC 0.2, Jan. 1910 to Jan. 1912 with Portland (Me.) Water Dist., in charge of surveys for, and Inspector on construction of, Sebago Pipe Line (15 miles long, approx. cost \$850 000). TT 2: D 0.5. Feb. to March 1912 Transitman with City Engr., Salem, Mass. TT 0.1. April to Aug. 1912 with Southern Massachusetts Power Co., Fall River, Mass., in charge of surveys for electric transmission line from Fall River to New Bedford, Mass. TT 0.3: RC 0.8. Aug. 1912 to April 1918 with Turners Falls Power & Elec. Co., Greenfield, Mass., as Chf. of Party on surveys, dam and canal construction; Designing Engr. on hydro-electric plants, electric substations, steam power plants, transmission lines; part of time Chf. Draftsman for Company, TT 5.8: RC 3.2: D 5.1. April 1918 to date Lieut. (i. g.), U. S. Naval Reserve Force, and Lieut., Civ. Engr., Corps, U. S. Navy, at various naval stations, in charge of dredging, hospital, power plant and concrete wharf construction, general maintenance of public works and utilities, fuel oil storage plants, etc. TT 6.5: RC 6.5: D 6.4. TT 17.2: RC 10.5: D 12. Refers to R. E. Bakenhus, E. H. Brownell, C. A. Carlson, L. E. Gregory, E. C. Sherman, D. C. Webb.

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997 (2) LASSITER, RICHARD THORNTON, 354 Commonwealth Ave., Boston, Mass. (Age 22. Born Holyoke, Mass.) 1924 S. B., Mass. Inst. Tech. Summer 1922 Clerk and Designing Draftsman, National Blank Book Co., Holyoke, Mass., designing of sheet steel punches and gauges, production forecasting and material scheduling. TT 2: SP 2. Refers to J. B. Babcock, 3d, H. K. Barrows, H. L. Bowman, C. B. Breed, F. Kurtz, G. H. Shaw, C. M. Spofford.

998 (12) LAXTON, WILLIAM WALLACE, 1006 Main St., Oregon City, Ore. (Age 35. Born Lenoir, N. C.) April 1910 to Dec. 1911 Rodman, Chainman and Bridge Inspector, railway construction, Pacific Ry. & Navigation Co., Portland, Ore. TT 1.7: SP 1.7. Feb. 1912 to June 1914 Chainman, Levelman and Transitman, Oregon Elec. Ry. TT 2.4: SP 2.4. July 1915 to Feb. 1917 Rodman, Instrumentman and Computer, Dept. of Valuation, Inferstate Commerce Comm. TT 1.7: SP 1.7. March to Nov. 1917 Chf. of Party, topographic survey, Gray Eagle Mine, Happy Camp, Cal. (6 months), and North Coast Power Co., Portland (3 months). TT 0.7: P 0.7. Dec. 1917 to June 1919 Sergeant, M Co., 23d Engrs., U. S. Army, supervising road construction and repair work and operation of quarries. TT 1.6: P 1.6 July 1919 to date with Portland Elec, Power Co. as follows: July 1919 to June 1920 Chf. of Party, preliminary road location and topographic surveys, preparing estimates, Oak Grove Project; July 1920 to Dec. 1922 Locating Engr., railroad location, conduit and transmission lines, same project; Jan. to Dec. 1923 Res. Engr., railway construction. 9-ft. diameter conduit line, bridges, tunnels and concrete dam; since Jan. 1924 Engr. investigating and preparing estimates of various hydro-electric prospects. TT 5.2: TT 13.4: SP 5.8: P 7.6: RC 4.2. Refers to A. S. Crane, C. P. Dunn, P 5.2: RC 4.2. H. A. Rands, W. L. Sharp, W. A. White. The state of the s

999 (1) LEAHY, CHARLES MAURICE, 453 Lockwood St., Astoria, N. Y. (Age 40. Born Middletown, Conn.) March 1923 Licensed Prof. Engr. and Land Surveyor, New York State. July 1904 to Oct. 1905 Laborer with Planetable Party, acting as Axeman, Rodman and Leveler, Topographical Bureau, Borough of Queens, New York City. TT 1.2: SP 1.2. Oct. 1905 to July 1924 with Sewer Dept., Borough of Queens, until May 1909 as Laborer with Engrs., acting as Rodman on line and grade work; then Axeman and Rodman, also drafting; from Dec. 1911 to Jan. 1922 Draftsman, plan and profile work, Detailer, design of plain and reinforced concrete, sewers, chambers, etc., design of drainage area, installing filing system, in charge of field office on tunnel sewer construction; after Jan. 1922 Asst. Engr., field work, supervising construction of sewers. 1912 to 1916 student (evenings) in Civ. Eng., Columbia Univ. TT 18.8: SP 9.3: P 9.5: D 3. July 1924 to date Pres., Stanhy Constr. Co., constructing water-works, sewers, plain and reinforced concrete foundations and retaining walls, earth excavation, roads and pavement (work annually \$100 000). March 1910 to date also in private practice as Civ. Engr. and Surveyor, New York City, on surveys, layout of \$500 000 building for General Vehicle & Raymond Concrete Pile Co.: design of residence and estate of C. B. Peters at Bergenfield, N. J.; Res. Engr., Camp Upton, in charge \$750 000 Army Base Hospital construction; geological surveys, foundation tests for Sweeney & Gray, Artesian Well and Test Boring Engrs., design of \$15 000 garage for Gottos Express Co.; estimating and in charge of work (over \$1 000 000) for F. J. Clancy and F. L. Paino. TT 0.3: P 0.3: RC 0.3. TT 20.3: SP 10.5: P 9.8: RC 5.3: D 7.6. Refers to A. Bartoccini, E. W. Firth, J. D. C. Mackey, J. F. Perrine, L. C. L. Smith.

1000(13) LYMAN, RICHARD FORSEY, 5917 Ayala Ave., Oakland, Cal. (Age 32. Born Omaha, Nebr.) 1914 B. S. in Civ. Eng., Univ. of Nebr. Aug. to Dec. 1914 Draftsman and Timekeeper at plant, Nebraska Portland Cement Co., Superior, Nebr. TT 2.4: SP 2.4. Jan. to April 1915 Rodman, Union Pacific R. R. TT 0.3: SP 0.3. April to Oct. 1915 Chainman and Rodman, Interstate Commerce Comm., surveys for valuation of roadway. TT 0.5: SP 0.5. Oct. 1915 to June 1917 (except 6 months in National Guard on Mexican Border) Draftsman (4 months) and Field Engr. (10 months), Concrete Eng. Co., Omaha, Nebr. TT 1.2: SP 1.2. Sept. 1917 to Feb. 1919 1st Lieut. and Capt. of Engrs., U. S. Army, with troops at Ft. Leavenworth, Kans., and Capt. Beauregard, La., and at Camp Humphreys, Va. TT 1.4: SP 0.4: P 1: RO 1. March 1919 to date Structural Designer with H. J. Brunnier, Cons. Engr., San Francisco, Cal., design of buildings, bridges, etc. TT 5.5: SP 1.5: P 4: RC 4: D 4. TT 11.3: SP 6.3: P 5: RC 5: D 4. Refers to W. H. Alderson, H. W. Bolin, H. J. Brunnier, C. B. Hopkins, F. A. Johnson, C. L. Meyer, C. E. Mickey.

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1001(13) McDONALD, HAYWARD COOPER, Camp 3, Big Creek, Cal. (Age 32. Born Sacramento, Cal.) 1917 B. S., Coll. of C. E., Univ. of Cal. Sept. to Dec. 1917 Rodman, Pacific Gas & Elec. Co. TT 2.8. Dec. 1917 to March 1919 Seaman, 2d Class, Chf. Quartermaster and Ensign, U. S. Navy. TT 1.3. May 1919—Jan. 1920 Draftsman, San Joaquin Light & Power Co., at Auberry, Cal., during construction of Kerckhoff Power House, mapping and design of construction plant structures. TT 0.7: D 0.2. Feb. to Aug. 1920 Draftsman, Aug. 1920 to Jan. 1922 Chf. Draftsman, and Jan. 1922 to date Div. Chf. of Party, Southern California Edison Co. of Los Angeles, Cal., on Big Creek Development. TT 4.7: RC 2: D 1. TT 9: RC 2: D 1.2. Refers to C. W. Chapin, H. W. Dennis, A. B. Pierce, D. H. Redinger, O. J. Schieber.

1002(5) MARSH, HAROLD HENRY, 720 Colorado Bidg., Washington, D. C. (Age 51. Born Cheltenham, England.) 1889 to 1893 Articled Pupil to J. R. Baillie, C. E., London, England; studied at various engineering colleges under Science and Art Dept., London. TT 4: SP 4. 1893 to 1895 Chf. Draftsman with Wm. Richards, Leicester, England, bridge and structural plant. TT 1.5: P 1.5. 1895 to 1898 Chf. Draftsman with Horace Bell, London, designing bridges, buildings and equipment for Indian and Egyptian railways. TT 2.7: P 2.7: RC 2.7. 1898 to 1907 Asst. Engr. in charge of bridges and buildings, Highland Ry. of Scotland; designed repairs to and renewal of bridges (up to 230 ft. span), also inspection and superintendence of same, with turntables, roundhouses and station buildings. TT 9.2: P 9.2: D 9.2. 1907 to 1908 Asst. Engr. with F. L. Averill, designing structural work, including power house for U. S. Capitol, Washington, D. C. TT 1: P 1: D 1. 1908 Asst. Engr. with W. B. Upten, Constr. Engr. for street railways of Washington, D. C., designing track work and car barns, TT 0.5: P 0.5: D 0.5. 1908 to 1911 and 1912 to 1922 Structural Engr. in Office of Superv. Archt., Treasury Dept., Washington, D. C., designing structural work for public buildings, post offices, custom and court houses, etc., in various parts of the United States, making investigations of soil conditions, including tests to determine carrying capacity, with recommendations for foundations; between 1920 and 1922 acted as Cons. Engr. for several architects on fireproof buildings (value \$50 000 to \$150 000). TT 13: P 13: D 13. 1911 to 1912 Structural Engr. in full charge for Virginia Ry. & Power Co., Richmond, Va., designing new power house. TT 0.5: P 0.5: D 0.5. 1922 to 1924 Chf. Designing Engr. for Stevens & Ruebsam, Cons. Engrs., Washington, D. C., designing structural work for numerous churches, court houses, colleges, hotels, office and factory buildings, schools, apartment houses, etc., in various parts of the country. TT 2.5: P 2.5: D 2.5. At present in private practice as Civ. and Structural Engr., Washington, D. C.; commissions include strengthening and remodeling of a church roof, fireproof arcade building, remodeling several residence properties into business premises and several other fireproof buildings. TT 35: SP 4: P 31: RC 5.7: D 26.7. Refers to F. L. Averill, C. W. Barber, W. P. Darwin, W. C. Lyon, T. W. Marshall, M. S. Rich, D. C. Trott, L. R. Whitted.

1003(6) MARTIN, JOHN TORBET, Care, Pennsylvania Water & Power Co., Holtwood, Pa. (Age 22. Born Lonaconing, Md.) 1924 B. E., Johns Hopkins Univ. June to Sept. 1921 Chainman and Rodman with Leander Schaidt, surveying. June to July 1922 at Reserve Officers' Training Camp, Camp Humphreys, Va. Aug. to Sept. 1922 Levelman, West Virginia State Roads Comm. June to Sept. 1923 Instrumentman and Inspector with Alvie F. Green, mine surveying and construction, including railroad location, tramways and planes, and construction of concrete mine opening, air shaft, motor house and repair shop. TT 2: SP 2. June 1924 to date Instrumentman and Draftsman, Pennsylvania Water & Power Co., river gauging, triangulation and sounding, topography and surveys. TT 0.2: SP 0.2.

SP 2.2. Refers to J. H. Gregory, W. W. Pagon, E. Stimson, J. T. Thompson, W. W. Varney.

1004(13) MILLARD, BRYANT TILDEN, 795 Gray St., Oroville, Cal. (Age 28. Born San Jose, Cal.) 1917 A. B., Leland Stanford, Jr., Univ. May to Aug. 1917 Instrumentman and Hydrographer, U. S. Reclamation Service, Phoenix, Ariz., in charge of party on drainage surveys, etc. TT 2.2: RC 0.2. Aug. 1917—June 1918 with California Highway Comm., over 2 months as Instrumentman on location of improved highways; then Asst. Supt., superintendence and field engineering on graded mountain highway and reinforced concrete bridge construction, and last 3 months Asst. Res. Engr. on inspection and field engineering on concrete highway construction. TT 0.9: RC 0.9. July to Nov. 1918 Private, U. S. Engr. Corps. Feb. to March 1919 Deputy County Surveyor, Santa Clara County, Cal., office and field work on concrete highways. TT 0.1: RC 0.1. March 1919 to April 1920 Asst. Res. Engr., and April 1920 to Sept. 1922 Res. Engr., California Highway Comm., inspection and field engineering on concrete highway construction, including reinforced concrete bridges. TT 3.4: RC 3.4. Sept. 1922 to date with Constant Angle Arch Dam Co., until Jan. 1924 as Transitman, later Res. Engr., field engineering and inspection on construction of constant

1005(15) MOBERG, CHARLES WILLARD, Care, E. B. Sloan, Tepic, Nayarit, Mexico. (Age 32. Born Herman, Minn.) April to Sept. 1910 Chainman, and June 1911 to Feb. 1914 Rodman and Instrumentman, Great Northern Ry. Co. TT 3.2: SP 3.2. March 1914 to May 1920 (except Jan. 1918 to May 1919 with U. S. Army) with Chicago, St. Paul, Minneapolis & Omaha Ry. Co., on Federal valuation of railroads, until Jan. 1917 as Instrumentman and Asst. Pilot on resurvey, then Pilot on bridge and building resurvey, and after June 1919 Asst. Engr. on engineering accounts and costs of reproduction. TT 4.8: SP 1.8: P 3: RC 2. May 1920 to Dec. 1921 Asst. and Land Appraiser, Chicago, Milwaukee & St. Paul Ry. Co., Federal valuation of railroads. TT 1.7: SP 0.9: P 0.8: RC 0.8, Dec. 1921 to April 1922 Bldg, Appraiser, Ramsey County, Minn. TT 0.3: P 0.3. April 1922 to Feb. 1923 Res. Engr., St. Louis County, Minn., highway concrete paving. TT 0.9: P 0.9: RC 0.9. March to Aug. 1923 Res. Engr., Wyoming North & South R. R., grading construction. TT 0.5: P 0.5: RC 0.5. Sept. 1923 to date Instrumentman and Res. Engr., Southern Pacific R. R. Co. of Mexico, grading construction. TT 1.1: SP 0.3: P 0.8: RC 0.8. TT 12.5: SP 6.2: P 6.3: RC 5, Refers to D. C. Fenstermaker, P. F. Huntington, H. W. Jones, H. C. Knight, F. O. Pease, S. B. Shepard, R. E. Smith.

1006(3) MORGAN, ALFRED CLARENCE, 71 N. Ellicott, Williamsville, N. Y. (Age 34. Born Mt. Vernon, III.) Aug. 1913 to Sept. 1914 Draftsman in Pattern Dept., Parlin & Orendorff Plow Co. TT 1: SP 1. Sept. 1914 to May 1917 Computer (Jr., Grade), Jr. Civ. Engr., Interstate Commerce Comm., physical inventory with field party on valuation of railroad properties. TT 2.6: SP 2.6. May 1917 to Oct. 1919 Capt., Engrs., U. S. Army, with 308th and 35th Engrs., construction work with engineer regiment overseas on various projects for service of supply. TT 2.4: SP 2.4. Oct. 1919 to Jan. 1922 Gen. Supt., Lackawanna Bridge Co., and Jan. to Oct. 1922 Gen. Supt., Lackawanna Bridge Works Corporation, in charge of shop operation on fabrication of bridges and buildings. TT 3.1: SP 0.5: P 2.6: RC 2.6. Oct. 1922 to date Gen. Supt., fabrication, Lackawanna Div., Bethlehem Steel Co., Supt. in complete charge of fabricating shops of Bethlehem Steel Co. in Buffalo. TT 2.1: P 2.1: RC 2.1. TT 11.2: SP 6.5: P 4.7: RC 4.7. Refers to C. S. Boardman, G. H. Bremner, T. Earle, W. A. Hazard, W. A. James, C. H. Mercer, H. R. Walters.

1007(13) MUNSON, SPENCER MUNROE, Jr., 819 Forum Bidg., Sacramento, Cal. (Age 23. Born Los Angeles, Cal.) 1924 A. B. in Eng., Stanford Univ. June 1924 to date with State Div. of Water Rights, over 1 month as Water Master, distribution of water according to court decree; and since Aug. 1924 Jun. Hydr. Engr. on collection of engineering data and measurement of pump discharges. TT 2.3: SP 2: P 0.3. Refers to E. N. Bryan, C. Moser. L. B. Reynolds, H. M. Stafford, C. B. Wing, G. Zander.

1008(4) NELSON, HARRY LLOYD, Burlington, N. J. (Age 21. Born Philadelphia, Pa.) 1924 B. S. in C. E., Univ. of Pa. June to Sept. 1922 Engr., Laurelton State Village, surveying, locating, designing and constructing concrete roads, improving grounds, responsible charge of work. June to Sept. 1923 Computer, New York Central R. R. Co. July 1924 to date Student, U. S. Cast Iron Pipe & Foundry Co., Laborer except when on tests and experiments. TT 2.3: SP 2.3. Refers to W. H. Barton, Jr., H. C. Berry, W. H. Choriton, E. T. Grandlienard, E. L. Ingram, W. S. Pardoe.

1009(7) OLIVER, WILLIAM ALBERT, 302 Highland Ave., Beloit, Wis. (Age 26. Born Thedford, Ont., Canada.) 1922 B. S. E. in C. E., Univ. of Mich. June 1922 to Sept. 1923 Plant Engr., American Malleables Co., Owosso, Mich., on new construction. TT 3.2: SP 2: P 1.2. Oct. 1923 to date Instructor in Mathematics, Beloit (Wis.) Coll., teaching/engineering courses. June to Sept. 1924 Instrumentman, City of Beloit. TT 1: P 1. TT 4.2: SP 2: P 2.2. Refers to J. H. Cissel, L. M. Gram, H. E. Riggs, E. K. Smith, C. O. Wisler.

1010(1) OWEN, ERNEST VALENTINE, 1268 Eighty-third St., Brooklyn, N. Y. (Age 32. Born Pontiac, Mich.) Student, C. E., Course, Temple Univ. (1 year) and Univ. of Pennsylvania (2 years). June 1913 to Aug. 1915 Designer and Estimator, Riverside Bridge Co., Martins Ferry, Ohio, on steel structures, including mill and factory buildings, highway and railroad bridges and viaducts, etc. TT 3.2: SP 1.2: P 2: D 2. Sept. 1915 to Jan. 1919 successively Designing Engr. (1 year), Chf. Draftsman (1 year) and Office Engr. (1 year) in charge of design, estimating and requisitioning material for construction work with Guif Refining Co., Port Arthur, Tex.; construction work (about \$4 000 000 annually) comprised

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all types of refinery construction, boiler houses, power houses, paraffine plant, docks, water supply and sewage-disposal systems; boiler, pipe and machine shops, etc.; Oct. and Nov. 1918 in U. S. Army at Officers' Training Camp, Ft. Monroe, Va. TT 3.2: P. 3.2: RC 2.2: D 3.2. Feb. 1919 to Aug. 1920 Asst. Engr., Sinclair Refining Co., Chicago, Ill., supervising design of part of work in East Chicago, Houston, Coffeyville and Kansas City Refineries. TT 1.6: P 1.6: RC 1.6: D 1.6. Sept. 1920 to June 1921 Designing Engr. and later Asst. Chf. Engr., Atlantic Gulf Oil Corporation, New York City, in connection with construction of Mexican and English refineries and proposed French refinery. TT 0.8: P 0.8: RC 0.5: D 0.8. July 1921 to Aug. 1922 Chf. Engr. with the Hoover Co., Chicago, on development of aluminum chloride process for cracking oil, about 5 months at Whiting Plant of Standard Oil Co. of Indiana, supervising design, erection and operation of a demonstrating plant. TT 1.1: P 1.1: RC 1.1: D 0.6. Sept. 1922 to Feb. 1923 and June 1923 to date Asst. Chf. Engr., Knox Process Corporation, New York City, on design of large oil (cracking) plant, at Texas City, TT 2: P 2: RC 2: D 2. March to May 1923 Asst. Engr., J. G. White Eng. Co., on petroleum work, principally design of oil refinery at Parco, Wyo. TT 0.2: P 0.2: RC 0.2: TT 12.1: SP 1.2: P 10.9: RC 7.6: D 10.4. Refers to L. T. Alden, H. Henderson, J. S. Hess, T. Human, Jr., H. J. Kelly, R. N. Whitcomb.

Dullette, South Shore & Atlentile Re-1011(8) PETTERSEN, THOMAS, 2628 N. Spaulding Ave., Chicago, Ill. (Age 49. Born Fredriksstad, Norway.) 1896 C. E., Kristiania Tech. School. 1902 to 1904 Rodman, Draftsman and Instrumentman on location and construction of various railroads. 1904 to 1905 Asst. Engr. in charge of location, C. & I. M. R. R. TT 1: P 1: RC 1. 1905 Draftsman, Chicago, Rock Island & Pacific R. R. TT 0.5: SP 0.5. 1905 to 1909 Asst. Engr. in charge of construction and maintenance of C. & I. M. R. R. and other properties of Peabody Coal Co., after 1906 in entire charge of design and construction. TT 4: P. 4: RC 4. 1910 Asst. Engr. in charge of construction, C. & G. W. R. R., had independent charge of three residencies under Engr. of Constr. TT 0.8: P 0.8: RC 0.8. 1910 (6 months) in Norway. 1910 to 1912 Chf. Engr. and Supt. in charge of part reconstruction and operation of C. & I. M. R. R. and other properties of Peabody Coal Co. TT 2: P 2: RC 2. 1912 to 1915 Structural Engr., Peabody Coal Co., in charge of design and construction. TT 3: P 3: RC 3: D 3. 1915 to 1916 Reinforced Concrete Designer, Chicago Surface Lines, in charge of design of car barns at Devon Ave. and other places. TT 1: P 1: RC 1: D 1. 1916 to 1918 in charge of surveys for proposed railroad from properties of Peabody Syndicate, Ky., to Ohio River. TT 1.3: P 1.3: RC 1.3. 1918 to 1920 Structural Engr., Peabody Coal Co. TT 2: P 2: RC 2: D 2. 1920 to 1922 in automobile business. 1922 to 1923 Designing Engr., Folwell-Ahlskog Co., grain elevator design. TT 1: P 1: RC 1: D 1. 1923 to 1924 Structural Engr., Dix River Power Development, Ky. At present Concrete Engr., Board of Local Improvements, Chicago. TT 1.2: P 1.2: RC 1.2: D 1.2. TT 17.8: SP 0.5: P 17.3: RC 17.3: D 8.2. Refers to F. A. Dale, L. C. Fritch, L. F. Harza, H. P. McKean, W. H. Wetzler, M. A. Zook.

1012(1) REEVES, GLENN STANTON, P. O. Box 148, Hoboken, N. J. (Age 33. 1916 C. E., Rens. Pol. Inst. July to Sept. 1915 Chainman, West Jersey & Seashore R. R. TT 2: SP 2. June 1916 to March 1917 Structural Draftsman, Bethlehem Steel Co., Steelton, Pa., details of bridges and buildings. TT 0.7; SP 0.7, March to Dec. 1917 Asst. Civ. Engr. with Central Romana of La Romana, Santo Domingo, in charge of topographical surveys for drainage and irrigation, made plans and in charge of construction, including the bridges, culverts and buildings. TT 0.8: P 0.8: RC 0.7. Dec. 1917 to July 1919 with 23d Engrs., U. S. Army, 11/4 years in France, made survey for reservoir and dam for Penfeld Pumping Station for water-supply of A. E. F. troops at Brest and stream investigation study for same; also similar work for, and supervised erection of hospitals at Keruhoun and Pontenazen near Brest; made inspection and report of condition of bridges in San Mihiel Sector; 4 months student, post-graduate course, Univ. of Toulouse. TT 1.6: SP 0.8: P 0.8: RC 0.3. Aug. 1919 to Jan. 1920 Asst. to County Engr., Grady County, Ga., on surveys, design, plans and estimates for highways and reinforced concrete pile and slab bridges for Federal and State Aid work. TT 0.4: P 0.4: RC 0.S: D 0.1. Jan. to Aug. 1920 Asst. Div. Engr., Georgia State Highway Dept.; Office Engr., supervised office, plans, designs and estimates for Federal and State Aid highway and bridge work for 2d Dist. TT 0.6: P 0.6: RC 0.6: D 0.2. Aug. to Oct. 1920 on vacation. Oct. 1920 to Aug. 1921 Chf. Engr., San Vicente River Min. Co., Cali, Colombia, pioneer and exploration work. TT 0.8: P 0.8: RC 0.8: D 0.8. Aug. 1921 to March 1922 Supt. for El Cedro sugar mill of W. A. Barney, in complete charge of cane operation, including the mill. TT 0.6: P 0.6: RC 0.6: D 0.6. March to June 1922 Inspector on reinforced concrete bridges and culverts, Georgia State Highway Dept., at Thomasville, Ga. TT 0.2: SP 0.2. June to Sept. 1922 Structural Drafts-

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man, Bethlehem Steel Co., detail drawings on Vehicular Tunnel. TT 0.5: SP 0.5. Sept. 1922 to March 1923 Salesman, Financial Dept., Federated Engrs. Corporation. TT 0.5: P 0.5. March 1923 to Jan. 1924 Engr., Panama Products Co., special research work, including map, also aiding in financing. TT 0.8: P 0.8: RC 0.8. Jan. to July 1924 Asst. to Supt. of Constr. on New Reading Terminal, Camden, N. J., in charge of progress reports, cost data, etc.; supervised construction of Y. M. C. A. Bldg. TT 0.5: SP 0.2: P 0.4: RC 0.2. July 1924 to date Engr., North Jersey Transit Comm., research and compilation of data for comprehensive engineering report on commuter and rapid transit problem of Northern New Jersey. TT 0.3: RC 0.2. TT 10.1: SP 4.2: P 5.9: RC 4.5: D 1.7. Refers to E. R. Cary, L. W. Clark, S. R. Ginsberg, C. N. Green, C. H. Mercer, F. Mitchell, P. C. Ricketts, S. H. Seelye.

1013(11) RITTMASTER, OSCAR, 634 H. W. Hellman Bldg., Los Angeles, Cal. (Age 33. Born St. Paul, Minn.) 1909-1910 (2 years) student, Colorado School of Mines. Feb. 1912 to Dec. 1913 Draftsman on construction, Chicago, Milwaukee & St. Paul Ry. TT 2.6: SP 2.6: D 0.5. Jan. to June 1914 Draftsman, Chf. Engr.'s office, Buffalo, Rochester & Pittsburgh Ry., on bridge and culvert work, etc. TT 0.5: SP 0.5: D 0.5. June to Nov. 1914 Draftsman, Duluth, South Shore & Atlantic Ry. TT 0.4: SP 0.4. Jan. 1915 to March 1917 Jun. Civ. Engr., Interstate Commerce Comm., on valuation of railroads. TT 2.2: SP 2.2. March to Oct. 1917 and Jan. to Aug. 1918 Min. Engr., Oliver Iron Min. Co., 7 months on office work, maps and designing, Eveleth, Minn., and 8 months in charge of engineering work, Pioneer Mine, Ely, Minn, TT 1.2: SP 0.6: P 0.7: RC 0.7: D 0.5. Aug. 1918 to Aug. 1920 Min. Engr., Hanna Ore Mines Co., Hibbing, Minn., in charge of engineering work at iron mines at Chisholm, Minn. TT 2: P 2: RC 2: D 1. Aug. to Nov. 1920 Eng. Draftsman, Empire Gas & Fuel Co., Bartlesville, Okla., on refinery design. TT 0.3: SP 6.3: D 0.3. Jan. 1921 to date in private practice of Civ. Eng., with C. R. Sumner, land subdivision, roads, etc. TT 3.7: SP 0.7: P 3: RC 3: D 1. TT 13: SP 7.3: P 5.7: RC 5.7: D 3.8. Refers to R. W. Brooks, H. G. Crow, E. R. Lewis, J. MacMillan, T. H. Strate, C. R. Sumner.

1014(13) ROPER, FREMONT EMERSON, 2829 Hillegass Ave., Berkeley, Cal. (Age 35. Born West-Concord, N. H.) 1911 B. S. in C. E., Brown Univ., Providence, R. I. June 1911 to Jan. 1912 Instrumentman, Castle Valley Coal Co., Mohrland, Utah, ran transit in mine, etc. TT 2.6: SP 2.6. Jan. to June 1912 Instrumentman and Inspector, Nevada-Douglas Copper Co., Ludwig, Nev., ran transit in mine, surveyed for highway; Inspector on buildings and macadam highways. TT 0.5: SP 0.5. June 1912 to Sept. 1917 Field Engr. and Div. Supt. of Constr., Standard Oil Co. (California), from Oct. 1915 had charge of all construction in field for Sales Dept. in Oregon, Washington and Alaska. TT 5.2: SP 1.5: P 3.7: RC 3.2: D 0.5. Sept. 1917 to Sept. 1919 Engr. Officer, U. S. Army, Engr. Officers' Training Camp; 1st Lieut., 319th Reg. Engrs. (Pioneers), 8th Div.; Capt., Co. D, 319th Reg. Engrs., A. E. F. TT 2: SP 2. Sept. 1919 to date Supt. of Constr. and Asst. Mgr., Sales Constr. and Maintenance Dept.; Standard Oil Co. (California). TT 4.7: P 4.7: RC 4.7. TT. 15: SP 6.6: P 8.4: RC 7.9: D 0.5. Refers to F. B. Cook, Jr., G. C. Fitz Gerald, H. H. Hall, A. S. Russell, R. U. St. John, J. B. Wells, S. K. Whipple.

1015(1) SEEBACH, GEORGE JOSEPH, 403 Palmer Ave., Bryn Mawr Park, Yonkers, N. Y. (Age 43. Born New York City.) 1905 B. S., and 1912 C. E., Cooper Union. 1922 Licensed Prof. Engr., Univ. of State of New York. 1900 to 1903 Structural Steel Draftsman with Lewinson & Just, Civ. Engrs. and Contrs., New York City. TT 5: SP 5. 1903 to 1907 Asst. Chf. Estimator and designing of buildings for prospective work, Lewinson & Co., Civ. Engrs. and Contrs., New York City. TT 4: P 4: RC 2: D 2. 1907 to 1910 with Bridge Dept., New York City, as Structural Steel Draftsman, estimating and reports, Asst. on calculation of stresses during investigation of Queensborough and Manhattan Bridges. TT 3: SP 1: P 2: D 2. Feb. to March 1910 Structural Designer, J. G. White Co., Engrs., New York City, in charge of structural steel design of power house, San Joaquin, Cal. TT 0.1: P 0.1: RC 0.1. March to Sept. 1910 Bridge Designer, Public Service Comm., 1st Dist., New York City, designing subways and stations in Brooklyn, in charge of squad. TT 0.6: P 0.6: RC 0.6. Sept. 1910 to Feb. 1911 Structural Steel Draftsman, Bureau of Design, Borough of Bronx, New York City, designed two transverse bridges for Grand Concourse; reinforced concrete culverts; approved designs of bridges over New York Central tracks; in charge of work. TT 0.4: P 0.4: RC 0.4. March 1911 to Oct. 1915 and Feb. 1916 to June 1917 Asst. to Chf. Engr., Geo. B. Post & Sons, Archts., New York City, until Oct. 1915 designing steelwork and reinforced concrete work, and after Feb. 1916 Asst. Engr. in charge of designing steelwork, reinforced concrete floor system, foundations, retaining walls, etc., for buildings. TT 6.2: P 6.2: RC 1.5: D 4.7. Dec. 1915 to Feb. 1916 Structural Desirein
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Designer with Weiskopf & Burroughs, New York City, designing steelwork for building and reinforced concrete foundation, in charge of work. TT 0.1: P 0.1: RC 0.1. June 1917 to July 1919 Structural Designer, New York Edison Co., New York City, designed structural steelwork for installation of two 35 000-kw. turbo generators for Waterside Station No. 1, investigations, etc., in charge of structural design and squad under Chas. Grady. TT 2: P 2: RC 2. July 1919 to Oct. 1924 Asst. to Chf. Engr., acting in his absence, Geo. B. Post & Sons, Asst. Engr. in charge of designing of steelwork, foundations and reinforced concrete work for buildings amounting to approx. \$30 000 000. At various times has done consulting work consisting of reinforced concrete theatre; designed reinforced swimming pool for Raymond Hood, Archt.; has been Cons. Engr. to Fibre Conduit Co. on ways and means of installing their conduits in various types of floor construction. TT 4.2: P 4.2: RC 4.2. TT 25.5: SP 6: P 19.5: RC 10.8: D 8.7. Refers to S. Dahm, J. O. Eckersley, C. B. Grady, C. S. Green, S. R. Jones, W. J. Thomas.

1016(1) SEIFERT, WILLIAM PAUL, 519 East 85th St., New York City. (Age 30. Born New York City.) 1922 B. S. in C. E., Cooper Union. Aug. 1917—March 1918 Draftsman, Bureau of Fire Alarm Telegraph of Fire Dept., New York City, on installation of new fire alarm system, mostly drafting. TT 2.7: SP 2.7. June 1918 to March 1919 Draftsman in connection with railroad coaling stations, Surety Eng. Co., New York City. TT 0.8: SP 0.8. April 1919 to date with Nicholas S. Hill, Jr., Cons. Engr., New York City, until Nov. 1919 as Draftsman and Rodman, drafting and computing in connection with water-works engineering and valuation; then Asst. Engr. on valuation of public water utilities, in field obtaining engineering data for appraisal and assisted in computations for detailed appraisals and rate schedules; since April 1922 Asst. Engr. in charge of valuation, responsible for preparation of reports in connection with appraisals made of public water utilities for sale, purchase and rates. TT 5.5: SP 0.5: P 5: RC 2.6. TT 9: SP 4: P 5: RC 2.6. Refers to A. N. Aeryns, J. N. Brooks, H. H. Chase, N. S. Hill, Jr., N. I. Kass, S. K. Knox, A. T. Ricketts, F. W. Simonds.

1017(7) SHERLOCK, ROBERT HENRY, 1520 Morton St., Ann Arbor, Mich. (Age 37. Born Lafayette, Ind.) 1910 B. S. in C. E., Purdue Univ. June 1910 to June 1911 Detailer, American Bridge Co., Toledo, Ohio. TT 3: SP 3. June 1911 to Nov. 1912 Structural Designer, German-American Sugar Co., Bay City, Mich., \$750 000 beet sugar factory. TT 1.5: P 1.5: RO 1.5: D 1.5: Nov. 1912 to Dec. 1919 Detailer, Cheeker, Squad Boss and Designer, American Bridge Co., Toledo (frequently loaned to other companies or sent to other offices of Company) detailing, checking or designing. TT 7: SP 3.5: P 3.5: RO 3.5: D 4. Dec. 1919 to Dec. 1920 Chf. Draftsman and Structural Designer, Columbia Sugar Co., Mt. Pleasant, Mich., \$1 500 000 beet sugar factory. TT 1: P 1: RO 1: D 0.5. Dec. 1920 to June 1921 Checker and Designer, and Dec. 1921 to Sept. 1923 Detailer, Checker and Designer, American Bridge Co., Toledo. TT 2.3: SP 0.8: P 1.5: RO 1.2: D 1.5. June to Dec. 1921 Structural Designer, City of Grand Rapids, Mich., filtration plant. TT 0.5: P 0.5: RC 0.5: D 0.5: Sept. 1923 to date Asst. Prof. of Civ. Eng., Univ. of Michigan. TT 1: P 1: RC 1: D 0.3. TT 16.3: SP 7.3: P 9: RC 8.7: D 8.3. Refers to L. M. Gram, R. G. Manning, F. S. Merrill, P. J. Reich, H. E. Riggs, M. J. Riggs, A. H. Smith.

1018(13) SIACCI, GIACINTO, P. O. Box 1489, Auckland, New Zealand (temporary address 2007 California St., San Francisco, Cal.) (Age 54. Born Turin, Italy.) 1890 received diploma of Licenciate in Mathematical and Physical Sciences (equal to B. Sc.), Royal Univ. of Rome; 1893 C. E., Royal School of Engrs., Bologna, Italy. Sept. 1893-Feb. 1896 (except 1 year in camp training for military service, Royal Engrs.) Res. Engr. for Ministry of Finances, Italian Govt., in charge of topographic surveying of two counties. TT 3.5: SP 2: P 1.5: RO 1.2: D 0.5. May 1897 to May 1902 Engr. Designer, Egyptian State Rys. and Telegraphs and Port of Alexandria, on construction of several large railway bridges, arches and sustaining walls and piers for Port of Alexandria, Egypt. TT 4.9: P 4.9: RO 0.2: D 4.7. May 1902 to Nov. 1905 Chf. Engr. with M. Padova and L. Rolin & Co., Steel Works Contrs., in charge of design and construction of two bridges (steel) in Alexandria, several iron sheds for the Custom House, and large warehouse (steel and concrete) at Kafr-el-Zayat. TT 3.4: P 3.4: RC 2.7: D 0.7. Dec. 1905 to Dec. 1918 Mng. Director, Societe Generale pour les Fondations in Egypte, Cairo, laying foundations for buildings of all kinds (simplex and compressol systems), largest being foundation for Secondary Girls Schools of Egyptian Govt. at Alexandria; June 1907 to March 1915 also Mgr. of Cairo Branch and Chf. of Ferro Concrete Dept., Industrial Bldg. Co. of Egypt; designed reinforced concrete and steel structures and carried out several contracts (total £500 000); March 1915 to Dec. 1918 also Cons. Engr. in Cairo and Alexandria on reinforced concrete and steel structures for

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G. Garozzo & Sons, Chartrain & Co., A. Lang & Co., Bidg. Contrs., and (during the war) Royal British Engrs.; also Engr. Expert to Egyptian Law Courts, on valuation of properties for apportionment to parties in litigation (Cairo and Alexandria). TT 13: P 13: RC 12.5: D 0.5. July 1919 to May 1924 in private practice as Cons. Engr.; part of time with Henry E. White, Archt., Sydney, Australia, and with S. Irwin Crookes & Son, Elec. Engrs., Auckland, New Zealand. Since May 1924 traveling. TT 4.8: P 4.8: RC 0.7:: D 4.2. TT 29.6: SP 2: P 27.6: RC 17.3: D 4.5. (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

1019(6) SLOVER, GEORGE, Box 654, Saltsburg, Pa. (Age 29, Born New Bern, N. C.) 1917 B. S. in Civ. Eng., Univ. of N. C. Sept. 1917 to June 1918 Asst. Engr., Cherokee County Highway Comm., in charge of surveys, and some locating. TT 2.8: SP 2: P 0.8. June 1918 to July 1919 with U. S. Engrs., 46th Regt., A. E. F., Sergeant in Eng. Corps. building railroads. TT 1.1: SP 1.1. Aug. 1919 to Aug. 1920 First Asst. Engr., Laurens County Highway Comm., in charge of construction of highways and bridges; designed and supervised construction of reinforced concrete bridges. TT 1: P 1: RC 0.5: D 0.5. 1920 to July 1921 graduate student, Massachusetts Inst. of Technology. TT 0.9: P 0.9. Aug. 1921 to July 1922 Field Engr., Fegles Constr. Co., on New York State grain elevator, Brooklyn, N. Y., responsible for layout of structure and machinery, worked up forms, construction details, estimates, including the final. TT 0.9: P 0.9: RC 0.5: D 0.4. Aug. 1922 to May 1923 Jun. Engr., West Virginia State Road Comm., on supervision of construction of hard-surface pavements. TT 0.8: P 0.8. May to Oct. 1923 Engr.-in-Chg., A. W. Hinaman Co., had complete charge, as Engr. and Supt., building Wellsville (Ohio) Reservoir. TT 0.4: P 0.4: RC 0.4. Nov. 1923 to date Engr. for Eyre-Johnston, building Severn River Bridge, Annapolis, Md., responsible for erection of form work; engineering and construction details, estimates, including the final; this embraced duties of Asst. Supt. and Constr. Engr.; Engr.-in-Chg. on Slickville, Pa., work, being responsible for construction: also estimating and preparing bids. TT 1: P 1: RC 1. TT 8.9: SP 3.1: P 5.8: RC 2.4: D 0.9. Refers to W. Cain, J. A. Dormer, B. E. Gray, T. F. Hickerson, C. M. Spofford, R. Whitford.

1020(8) SMITH, ROBERT JOSEPH, Windemere West, Chicago, Ill. (Age 40. Born Kansas City, Mo.) 1917 graduated from Chicago Technical School. 1910 to 1916 with Kenwood Bridge Co., Morava Constr. Co., Allen & Garcia, and Purdy & Henderson, structural steel designing, checking, detailing and estimating. TT 6: P 6: D 6. 1916 to 1922 with Witherspoon Englar Co., Grain Elevator Engrs., as Engr. in charge of structural steel design and construction. TT 6: P 6: RC 6. 1922 with J. S. Metcalf Co., Grain Elevator Engrs., Chicago, Ill., as Engr. in charge of investigating conditions of structural steel on Chicago & North Western Elevator after explosion. TT 0.5: P 0.5: RC 0.5. 1922 to 1923 with Witherspoon Englar Co., in charge of reconstruction of structural steel on C. & N. W. R. R. Elevator, supervising wrecking and replacing of steel. TT 2: P 2: RC 2. 1923 (6 months) with J. S. Metcalf Co., as Designing Engr., structural steel, Baltimore & Ohio Terminal Elevator, Baltimore, Md., municipal grain elevator, Houston, Tex. TT 0.5: P 0.5: RC 0.5: D 0.5. Aug. 1923 to date with Kenwood Bridge Co., designing and checking steel plans. TT 16.2: P 16.2: RC 9: D 7.7. Refers to I. Cohen, F. L. Cope-TT 1.2: P 1.2: D 1.2. land, A. Diefendorf, C. A. Morse, P. Willis.

1021(4) SOMERS, EUGENE, 545 Howertown Ave., Catasauqua, Pa. (Age 38. Born Northfield, N. J.) April 1903 to March 1905 Rodman, Chainman and Draftsman with Frank Middleton, Civ. Engr. and Surveyor, Atlantic City, N. J., on surveys. TT 2: SP 2. April 1905 to Oct. 1906 Rodman and Draftsman with E. D. Rightmire, Engr., Atlantic City, highways, paving, surveying. TT 1.5: SP 1.5. Oct. 1906 to Jan. 1907 Transitman and Draftsman, City Eng. Dept., New Castle, Pa., resurveying and monumenting city streets and sectional map of city. TT 0.3: P 0.3. Feb. 1907 to Aug. 1912 successively Transitman, Party Chf. and Prin. Asst. to E. D. Rightmire, City Engr., Atlantic City, etc., surveys, designs, estimates, supervision of construction, county and state highways, steel and concrete highway bridges, sewers, suburban town improvements. TT 5.5: SP 1.5: P 4: RC 3: D 2. Aug. 1912-June 1914 Draftsman (over 7 months), Asst. Engr. in charge of boundary surveys (11/2 years), Atlas Portland Cement Co., Northampton, Pa. TT 1.8: SP 0.6: P 1.2: RC 1.2. July 1914 to Jan. 1915 Asst. Engr. with F. A. Price, C. E., Wilmington, Del., in charge of county, state highway, property and topographic surveys. TT 0.5: P 0.5: RC 0.5. Jan. to June 1915 Asst. Engr., Ward Carpenter & Co., Civ. Engrs., Tarrytown, N. Y.; Draftsman on township tax maps and Party Chf. on town highway survey. TT 0.4: SP, 0.3: P 0.1: RC 0.1. June 1915 to May 1917 Office Engr. and Prin. Asst., City Eng. Dept., Woonsocket, R. I., design of concrete bridges, sewers, storm water drains; supervision of construction of concrete bridges, charge of making plans and assessment maps. TT 1.9: SP 0.4: P 1.5: RC 1.5: D 1. May 1917 to Jan. 1918 Acting City Engr., Ventnor City, N. J., and in charge engineering practice, W. I. Risley, C. E., Atlantic City, property surveys, investigation and report on storm water drainage system, suburban town engineering, coast protection works, street paving. TT 0.7: P 0.7: RC 0.7: D 0.2. Jan. 1918 to date Asst. Chf. Draftsman (2 years) and 2d Asst. to Constr. Engr. (nearly 4% years), Atlas Portland Cement Co., Northampton, Pa., supervision of layouts, designs and construction plans for structures and machinery for cement manufacturing plants. TT 6.7: P 6.7: RC 6.7: D 4. TT 21.3: SP 6.6: P 14.7: RC 13.7: D 7.2. Refers to F. E. Dodge, J. W. Hackney, A. H. Nelson, F. S. Price, W. I. Risley, G. L. Watson.

1022(1) SOMERVELL, BREHON BURKE, 39 Whitehall St., New York City. (Age 32. Born Little Rock, Ark.) 1914 U. S. Mil. Acad.; 1921 Engr. School, U. S. Army; 1923 Command and General Staff School. Oct. 1914-Nov. 1915 with Co. A, 1st Bn. Engrs., construction of wharf, small bridges, target range, etc.; survey and design of exterior defenses of Portsmouth, N. H., and military map of part of New England coast. TT 3.1: SP 2: P 1.1: RC 0.7: D 0.5. Dec. 1915 to Sept. 1916 with Co. G, 2d Bn. Engrs., Rgt. Hdqrs., 2d Engrs., map of El Paso and vicinity; in charge Engr. Depot Punitive Expedition and of various highway and bridge construction in Mexico. TT 0.8: P 0.8: RC 0.8: D 0.4. Sept. 1916 to May 1917 at Engr. School, Washington Barracks, D. C. TT 0.6: P 0.6. May to Oct. 1917 Adjt., 15th Engrs. TT 0.4: P 0.4: RC 0.4: D 0.1. Oct. 1917 to April 1918 with 15th Engrs., in charge of construction Mehun S/Yevre Nevers and Chateauroux; railway, warehouse, hospital, barracks and industrial buildings, design, layout and construction. TT 0.5: P 0.5: RC 0.5: D 0.5. April to Oct. 1918 in charge construction Is-sun-Tille Storage Depot and Regulating Station, and miscellaneous construction in adjoining territory; Senior Member of Board to Select and Design Intermediate Depot and Rail and Water Terminal near Chalons sur Saone. TT 0.6: P 0.6: RC 0.6: D 0.6: Oct. 1918 to May 1919 Asst. Chf. of Staff for Operations and for Supply Construction Transportation, 89th Div. TT 0.6: P 0.6: RO 0.6. May 1919 to July 1920 Asst., and July to Oct. 1920 Asst. Chf. of Staff, G-4 (Construction, Transportation, Supply and Finance), Army of Occupation, Germany. TT 1.5: P 1.5: RC 1.5. Nov. 1920-July 1922 Asst. to Officer in Chg., War Plans and Training, Office, Chf. of Engrs., War Dept., in direct charge of war plans. TT 1.8: P 1.8: RC 1.8. Aug. 1922 to June 1923 Student, Command and General Staff School, Ft. Leavenworth, Kans. TT 0.9: P 0.9. June 1923 to date Executive Asst. to Dist. Engr., 1st Dist., New York City, dredging, rock removal, dike construction, miscellaneous structure; at present Major, Corps of Engrs., U. S. Army. TT 1.3: P 1.3: RC 1.3: D 1.8. TT 12.1: SP 2: P 10.1: RC 8.2: D 2.4. Army. TT 1.3: P 1.3: RC 1.3: D 1.3. TT 12.1: SP 2: P 10.1: RC 8.2: D 2.4. Refers to R. S. Buck, E. A. Gibbs, W. W. Harts, W. Kelly, G. W. Kittredge, M. M. Patrick, J. R. Slattery, H. Taylor.

1023(4)STARR, OLIVER FLAVEL, Otis Bldg., Philadelphia, Pa. (Age 40. Born New York City.) 1900 Chalnman with T. W. G. Davidson, City Surveyor, New York City. TT 1: SP 1. 1900 to 1901 Chainman with John F. Fairchild, Civ. Engr., Mt. Vernon, N. Y. TT 1: SP. 1. 1901 to 1904 Chainman and later Asst. with Walter A. Miles, Mt. Vernon. TT 3: SP 3. 1904 to 1905 Draftsman, Pennsylvania Lines West of Pittsburgh. TT 1: SP 1. 1905 to 1906 Transitman, New York Central R. R. TT 1: P 1: RC 1. 1906 to 1907 Chf. of Party, New York, New Haven & Hartford R. R., Real Estate Dept., New Haven, Conn. TT 1: P 1: RC 1. 1907 to 1910 in private practice of civil engineering and surveying at Mt. Vernon. TT 3: P 3: RC 3: D 3. 1910 to 1914 Chf. Engr., Starr-Patterson Eng. Co., New York. TT 4: P 4: RC 4: D 4. 1914 to 1918 Chf. Engr., Green-Starr Eng. Co., New York. TT 4: P 4: RC 4: D 4. Philadelphia, Pa. TT 4: P 4: RC 4: D 4. 1918 to date in private practice as Cons. Engr., entirely on sanitation. TT 6; P 6: RC 6: D 6. TT 25: SP 6: P 19: RC 19: D 17. Refers to C. A. Emerson, Jr., J. F. Fairchild, W. H. Gravell, T. Horton, F. F. McDowell, C. M. Mapes, G. A. Sherron. (Age 12. Bern Dandenong, Victoria Amiralia.), 1008 B. C. E.

1024(10) STILES, JOHN CHADWICK, Wilson Dam, Florence, Ala. (Age 38. Born Carters-ville, Ga.) 1901 to 1903 (3 years) student, Georgia School of Technology. 1904 to 1909 Engr. on location and construction, construction of yards and shop plant, Central of Georgia Ry., Savannah, Ga. TT 5: SP 5. 1909 to 1911 Engr. in charge of location and construction of street railway, Clenfuegos, Palmere & Crusus Elec. Ry. & Power Co., Clenfuegos, Cuba. TT 2.5: P 2.5: RC 2.5. 1911 to 1912 with Northern Contr. Co., Atlanta, Ga., in charge of erection of electrical substation at Cartersville, Ga. TT 0.5: P 0.5: RC 0.5. 1912 to 1913 Inspector of erection of steel bridges and viaducts on approx. 100 miles of interurban line, Southern Eng. & Constr. Co., Dallas, Tex. TT 1: P 1. 1913 to 1914 Engr. on construction of stockage and mine surveying, Montevallo Min. Co., Birmingham, Ala, TT 1: P 1. 1914

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to 1917 Asst. Bldg. Inspector, City of Birmingham, checking design and inspecting erection of reinforced concrete structures. TT 2.5: P.2.5: D 2.5. 1917 to 1918 1st Lieut., 106th Engrs., U. S. Army Engr. Corps, Camp Wheeler, Macon, Ga., training troop. TT 0.7: P 0.7. 1918 to 1923 with U. S. Ordnance Dept., Asst. on construction and operation of 30 000-kw steam plant at Gorgas, Ala.; 1st Lieut. and Capt. in Ordnance Corps, Senior Civ. Engr. Ordnance Dept. TT 5.5: P 5.5: RC 3. 1923 to date with Hugh L. Cooper & Co., New York City, as Inspector on construction of Wilson Dam, Florence, Ala. TT 1: P 1. TT 19.7: SP 5: P 14.7: RC 6: D 2.5. Refers to M. Elliott, F. P. Fifer, J. W. Hall, J. H. Johnston, J. D. Moore.

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1025(10) STRIBLING, JOSEPH NORTON, Care, Southern Power Co., Charlotte, N. C. (Age 32. Born Walhalla, S. C.) 1912 B. S., Clemson Coll. June to July 1912 Tracer and Draftsman on reinforced concrete filter, Water Works Dept., Columbia, S. C. TT 2.2: SP 2.2. Oct. 1912 to Jan. 1913 Draftsman, American Water Works & Guaranty Co., preliminary investigations for water power in western North Carolina. TT 0.4: SP 0.4. Feb. 1913 to Feb. 1914 Instrumentman, Piedmont & Northern Ry., estimates, earthwork computations, drafting, etc. TT 1: SP 1. Feb. to Sept. 1914 Instrumentman, Brett Eng. Co., drainage surveys. TT 0.6: SP 0.6. Feb. 1915 to May 1917 Instrumentman, Topographer and Chf. of Party, Southern Power Co., topographic surveys for hydro-electric development. TT 2.3: SP 1.1: P 1.2. July 1917 to May 1919 1st Lieut., 117th Engr. Regt., U. S. Army, with troops, Combat Div., from Nov. 1917 to April 1919 overseas. TT 1.9: P 1.9. May 1919 to June 1920 Res. Engr., South Carolina State Highway Comm., construction of top soil and gravel roads and concrete culverts. TT 1: P 1. June 1920 to Oct. 1922 County Engr., Oconee County (S. C.) Highway Comm., in charge of laying out, locating and constructing system of highways, top soil surfacing, bridges of steel, concrete and timber. TT 2.4: P 2.4: RC 2.4. Oct. 1922 to date Res. Engr., Southern Power Co., in charge of installation of additional 15 000-kw. steam turbine at Eno Station; since Dec. 1923 in charge of topographic surveys for hydro-electric development. TT 2: P 2: RC 2. TT 13.8: SP 5.3: P 8.5: RC 4.4. Refers to F. H. Cothran, A. C. Lee, J. R. Pennell, L. M. Ross, G. F. Syme.

1026(1) STUBBINS, JOHN RUSSELL, 921 Bergen Ave., Jersey City, N. J. (Age 26. Born Paris, Mo.) 1921 B. S. in Civ. Eng., Univ. of Ill. July to Sept. 1917 Draftsman, Kansas City (Mo.) Terminal Ry. 1918 to 1920 (while student) Asst. in Surveying, Missouri School of Mines, assisting Instructor in class and field work; Instructor in military mapping during war. May to Sept. 1918 Rodman, St. Louis-San Francisco Ry. TT 2: SP 2. Feb. to Sept. 1919 Draftsman and Res. Engr., Oklahoma, Kansas & Missouri Ry., Miami, Okla., made valuation maps and 31/2 months in field supervising maintenance and construction. TT 0.6: SP 0.3: P 0.3: RC 0.3. Nov. 1919 to Jan. 1920 Chf. of Party on surveys for, and June to Sept. 1920 and Sept. 1921 to Jan. 1922 Office Engr. in charge of field and office forces locating and designing, Federal Aid roads, for Monroe County Highway Dept., Paris, Mo. TT 0.5: P 0.5: RC 0.3: D 0.1. Sept. 1920 to June 1921 (one-half of time, while students) Instructor in Surveying, Univ. of Illinois. Jan. 1922 to March 1923 Dist. Engr., Venezuelan Sun, Ltd., Maracaibo, Venezuela, in charge of triangulation, topographic and road location surveys and some road construction. TT 1.3: P 1.3: RO 1.3: D 0.3. July 1923 to Aug. 1924 Asst. Engr., Wabash Ry. Co., maintenance of way, surveys, reports, design, Supt. of Constr. and A. F. E. estimating and inventory. TT 1.1: P 1.1: RC 1.1: D 0.6. Aug. 1924 to date Office Engr., Route No. 1, Extension Div., New Jersey State Highway Dept., office work, map construction and preliminary design computations and layouts. TT 0.2: P 0.2: RC 0.2: D 0.1. TT 5.7: SP 2.3: P 3.4: RC 3.2: D 1.1. Refers to I. O. Baker, R. M. Beck, E. G. Harris, F. C. Huntsman, S. Johannesson, F. Lavis, C. C. Wiley, W. M. Wilson.

1027(1) SUTHERLAND, IAN MacKENZIE, Stephens Road, Healesville, Victoria, Australia. (Age 42. Born Dandenong, Victoria, Australia.) 1906 B. C. E., and 1908 M. C. E., Melbourne Univ. Jan. 1905—Aug. 1907 Field Asst. and Draftsman, Constr. Branch, Victorian Rys., setting out, drafting, quantities, etc. TT 4.6: SP 3: P 1.6. Sept. 1907 to Aug. 1911 Draftsman, State Rivers and Water Supply Comm., design of distributing works and structures (principally of reinforced concrete) for irrigation schemes and supervision of construction of some of them. TT 4: P 4: RC 0.5: D 2.5. Aug. 1911 to date Draftsman and Asst. Engr., Melbourne & Metropolitan Board of Works, design of Marcondah Dam and Outlet Tower (cost about £700 000) and other water supply and sewerage works: 3 years Res. Engr., on construction of Marcondah Dam, including last year as Superintending Officer, TT 13: P 13: RO 4.5: D 7. TT 21.6: SP 3: P 18.6: RO 5: D 9.5. Refers to G. Higgins, (Applies in accordance with Sec. 1, Art. I, of the By-Laws.)

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1028(1) SUTTON, HARRY. 34 Bank St., New York City. (Age 27. Born Newark, N. J.) 1923 B. S. C. E., Univ. of Mich. Aug. 1923 to Aug. 1924 Jun. Engr., San. Dist. of Chicago, drafting, estimating, calculations, investigations and some designing of sewers, pumping stations. TT 3: SP. 2.7: P 0.3: D 0.3. Aug. 1924 to date Draftsman, Port of New York Authority, New York City, general layout work, chiefly in connection with railroads and terminals. TT 0.2: SP 0.2. TT 3.2: SP 2.9: P 0.3: D 0.3. Refers to W. J. Boucher, I. P. Kane, H. L. McMillan, L. Pearse, L. C. Whittemore.

1029(1) TAMBONE, DOMENICO, 2405 Beaumont Ave., Bronx, New York City. (Age 32. Born Capizzi, Italy.) 1920 Civ. and Hydr. Engr., School of Application for Eng., Padova, Italy. 1915 to 1919 2d Lieut. with Engrs. In Italian Army, in responsible charge of work. TT 6: SP 2: P 4: RC 4: D 0.5. 1920 to 1922 structural computation for the Liceum, Normal School, and Inst. Capellini, Messina, for Alessandro Giunta, Archt. TT 2: SP 1: P 1: RC 1: D 1. 1922 to 1923 on layout in office and field for 20 miles of road, bridge (steel and concrete), for Saro Trifiletti, Engr., and surveying for Univ. of Messina (\$700 000). TT 1: SP 0.5: P 0.5: RC 0.5: D 0.8. 1923 to 1924 in private practice, designed a church (approved by Minister of Public Works), also several small projects, including sewer, aqueduct, etc. (approved by state authorities, Messina). TT 1: P 1: RC 1: D 0.6. TT 10: SP 3.5: P 6.5: RC 6.5: D 2.9. Refers to A. Bartoccini, A. D'Antona, A. C. Janni, L. Luiggi, U. E. Martini.

1030(13) TEGTMEYER, LOUIS GEORGE, Room 368, City Hall, San Francisco, Cal. (Age 43. Born Shiloh Hill, Ill.) Jan. 1904 to March 1908 Draftsman, M. of W. Dept., Southern Pacific Co., track, station and yard layouts, etc. TT 4.2: P 4.2. Sept. 1908 to Nov. 1909 Draftsman on sewer design, and Oct. 1912 to date Asst. Engr., in charge of sewer design, Bureau of Eng., City and County of San Francisco. TT 13.2: P 13.2: RC 12. Nov. 1909 to Oct. 1912 Draftsman, Dept. of Eng., Northwestern Pacific R. R. Co. TT 2.9: P 2.9. TT 20.3: P. 20.3: RC 12. Refers to U. G. Brown, M. J. Callaghan, N. A. Eckart, C. E. Healy, M. M. O'Shaughnessy, F. O. Shutts, H. J. Stahle.

1031(13) TEMPEST, JOSEPH EDWARD, 3125 E St., Sacramento, Cal. (Age 52. Born Keighley, England.) Student, Keighley Technical Inst. (6 years) and South Kensington School of Science and Art (2 years). 1897 to 1901 Asst. Engr., Algoma Central & Hudson Bay Ry.; Draftsman, Topographer, Instrumentman and Res. Engr. TT 3.5: P 3.5. 1901 to 1905 Asst. Engr., Grand Trunk Pacific Ry.; Locating Engr. and Res. Engr. TT 4.5: P 4.5: RC 4.5. 1912 to 1917 Asst. Engr., City of Sacramento; Field Engr. and Office Engr., streets and sewers. TT 4.5: P 4.5: RC 1: D 3.5. 1917 to 1919 Asst. Engr., California State Reclamation Board. TT 1.7: P 1.7: D 0.7. 1919 to 1921 Asst. Engr., State Dept. of Eng.; Locating Engr. TT 2: P 2: RC 2. 1921 to 1924 Asst. City Engr., Sacramento, in charge of streets, sewers, etc. TT 3.8: P 3.8: RC 3.8. TT 20: P 20: RC 11.3: D 2.2. Refers to H. A. Armstrong, J. B. Brown, A. Given, H. J. Gault, J. W. Gross, S. A. Hart, R. S. McCormick, C. Maughmer, R. U. St. John, A. J. Wagner.

1032(4) TEMPONE, JEREMIAH, 1518 Snyder Ave., Philadelphia, Pa. (Age 26. Born Philadelphia, Pa.) 1923 B. S., Pa. State Coll. June 1923 to July 1924 Timekeeper, also assisting Supt. of Constr., giving grades and laying out work for construction of hotel, bank and office building in Hazelton, Pa., for Wark Co. TT 3: SP 3. July 1924 to date Steel Foreman, placing reinforcing steel at Seamen's Inst. Bldg., Philadelphia, Pa. TT 0.2: SP 0.2. TT 3.2: SP 3.2. Refers to E. M. Bassett, H. N. Benkert, R. O'Donnell, R. L. Sackett, E. D. Walker.

1033(1) VALENTINE, THOMAS DOMENY, 29 Broadway, Room 12, New York City. (Age 40. Born Sacramento, Cal.) 1901 to 1902 Battery Repairman, Metropolitan St. Ry. Co. TT 1: SP 1. 1902 to 1903 Elec. Car Wireman and Inspector of circuit receptacles, Brooklyn Rapid Transit Ry. Co. TT 1: SP 1. 1903 to 1904 Timekeeper and Cost Clerk, Concrete Steel & Tile Constr. Co., on Buildings at Tuckahoe, N. Y. TT 1: SP 1. 1904 to 1906 Concrete Foreman, Frank B. Gilbreth Co., on buildings. TT 2: P 2: RC 2. 1907 to 1908 Foreman and Transitman on county road work, with John R. Vipond, Altoona, Pa. TT 0.6: P 0.6: RC 0.6. 1908 to 1909 with May & Jekyll, New York City, as Sec. Foreman on Madeira Mamore Ry., Estado Amezona, Brazil. TT 1: P 1: RC 1. 1909 to 1914 with Pearson Eng. Co., as Sec. Superv. Foreman on Northwestern Ry. of Mexico, grading; Madeir Lumber Co. of Mexico, grading and buildings; and Riegos y Fuerza del Ebro Canal, tunnels and spillways. TT 5: P 5: RC 5. 1916 to 1917 with International Cement Co., 8 months in full charge of construction of cement mill, and 10 months Gen. Asst. to Chf. Engr., Sierras Bayas, Argentine Republic. TT 1.5: P 1.5: RC 1.5. 1917 to 1918 Assembly

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Supt. of Buenos Aires Plant, Ford Motor Co. TT 1: P 1: RC 1. 1918 to 1923 on private work, automobile body manufacturing in Buenos Aires (2 years), and as Contr., New York City (3 years). TT 5: SP 5: P 5. July 1924 to date with Murrie & Co., Engrs., in charge of inventory work, New York Edison Co. Station. TT 0.4: P 0.4: RC 0.4. TT 19.5: SP 3: P 16.5: RC 16.5. Refers to A. W. K. Billings, F. M. Billings, G. B. Cornell, J. H. Gaynor, J. A. Sargent.

1034(7) WENDEL, LEON HENRY, 721 South State St., Ann Arbor, Mich. (Age 24. Born Lockport, N. Y.) 1924 B. S. in C. E., Univ. of Mich. June to Aug. 1923 Inspector on concrete roads, also Instrumentman, Niagara County Highway Dept., Lockport, N. Y. TT 2: SP 2. Aug. 1924 to date Draftsman with Hoad, Decker, Shoecraft & Drury, Ann Arbor, Mich. TT 0.2: SP 0.2. TT 2.2: SP 2.2. Refers to A. H. Blanchard, J. H. Cissel, A. J. Decker, W. R. Drury, W. C. Hoad, H. E. Riggs, E. C. Shoecraft.

1035(14) ZEIGLER, CHARLES FORREST, Court House, Norton, Kans. (Age 26. Born Manhattan, Kans.) 1918 B. S. in C. E., Kans. State Agri. Coll. June to Aug. 1918 Draftsman, Kansas Highway Comm., Topeka, Kans., design and drafting of bridge and culvert standards under direction; also supervision of road surveys in field and plan work in office. TT 2.2: SP 2.2. Aug. 1918 to April 1920 Transitman, Atchison, Topeka & Santa Fe Ry., in charge of party on maintenance and construction. TT 1.7: SP 1.7. April to Aug. 1920 Asst. Engr. of Constr. with R. A. Becker, Cons. Engr., Kansas City, Mo., in charge of building construction and also mining surveys in Colorado. TT 0.3: SP 0.3. Aug. to Dec. 1920 Instrumentman, U. S. Reclamation Service, El Centro, Cal. TT 0.3: SP 0.3. Dec. 1920 to March 1922 Res. Engr., Jefferson County, Oskaloosa, Kans., in charge of standard gravel road construction; later made investigations and designs for bridge and road work. TT 1.3: P 1.3: RC 0.6: D 0.7. March 1922 to March 1924 County Engr., Hodgeman County, Jetmore, Kans., in charge of road and bridge construction and maintenance. TT 2: P 2: RC 2: D 2. March 1924 to date County and Res. Engr., Norton County, Norton, Kans., in charge of road and bridge construction and maintenance; also in charge of Federal Aid highway construction in the county for Kansas Highway Comm. TT 0.6: P 0.6: RC 0.6: D 0.6. TT 8.4: SP 4.5: P 3.9: RC 3.2: D 3.3. Refers to H. S. Allen, L. E. Conrad, F. W. Epps, F. F. Frazier, M. W. Furr, M. W. Watson.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

1036(6) BANKSON, ELLIS EDWIN, Assoc. M., Union Bank Bldg., Pittsburgh, Pa. (Elected Nov. 9, 1920.) (Age 40. Born Bethany, Ill.) 1907 B. S. in C. E., Millikin Univ. 1922 C. E., Univ. of Pittsburgh. 1907 to 1912 Instructor, etc., up to Asst. Prof. in charge of surveying and railway engineering, etc., Univ. of Pittsburgh. TT 7: SP 2: P 5: RO 5: D 1. 1912 to 1917 Lecturer in Civ. Eng., in charge Dept. of Hydr. and Mun. Eng. and Materials of Constr., Univ. of Manitoba, Winnipeg. May to July 1913 with Dominion Goyt, as Asst. Engr. on stream gauging and related work, Manitoba Hydrographic Survey. May to July 1914 with Manitoba Public Works, Highway Dept., as Engr.-in-charge of surveys and construction of roads in Archie Municipality, Manitoba. May to Aug. 1916 Inspector, concrete materials, cost of construction, etc., Greater Winnipeg Water Dist. June to Aug. 1917 Transitman on Liberty Mill construction, Carnegle Steel Co., at Homestead, Pa. TT 5: P 5: RC 5: D 1. Aug. 1917 to date with The J. N. Chester Engrs. (formerly Chester & Fleming), Pittsburgh, as Asst. Engr. on valuation work, rate cases, expert testimony, investigations, and reports on water-works problems, and finally member of firm. TT 7.1: P 7.1: RC 6. TT 19.1: SP 2: P 17.1: RC 16: D 2. Refers to L. P. Blum, J. N. Chester, J. Farris, T. Fleming, Jr., J. F. Laboon, F. W. Lyon.

1037(7) BERG, JOHN, Assoc. M., Pierre, S. Dak. (Elected Oct. 7, 1914.) (Age 54. Born near Vermillion, S. Dak.) 1895 L. B. and 1900 Ph. M., Univ. of S. Dak. 1905 B. S. C. E., and 1910 C. E., Univ. of Wis. Sept. 1905 to June 1907 Instructor in Civ. Eng., Iowa State Coll., in charge of freshman and sophomore surveying, and some work in descriptive geometry: 2 years with A. Marston, Dean, Div. of Eng. TT 3.5: SP 2: P 1.5. June to Sept. of years 1906 and 1907 Asst. Designing Engr., Board of Water Supply, New York City, investigations on high masonry dams, Olive Bridge Dam and Kensico Dam. Dec. 1907 to March 1908 Draftsman and Estimator on small concrete structures, street grades and waterworks improvements for Alexander Potter, Cons. Engr., New York City. TT 0.3: P 0.3. March 1908 to July 1910 Asst. Engr., Glyndon Contr. Co., New York City, under general

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direction of Chf. Engr., developed graphical charts for, and had charge of office and field work on adjustment of Manhattan Bridge Cables; in charge of computations on cables and stiffening trusses for various heavy suspension bridge projects, including one for new Quebec Bridge, TT 2.3: P 2.3: RC 1. July 1910 to March 1912 miscellaneous engineering, with H. D. Robinson, Cons. Engr., New York City, as Res. Engr., Massena Center Highway Suspension Bridge, New York, Chf. Computer on various suspension bridge projects, largest being another design for new Quebec Bridge; examination and report on Racquette River Bridge, Massena Springs, N. Y.; examination of architect's plans for shop building in Brooklyn; Chf. of Party on city subdivision survey of Larchmont Park, N. Y., for Guy Vroman, Larchmont, N. Y.; Inspector of concrete, New York City Aqueduct (tunnel near Yonkers). TT 1.7: P 1.7: RC 1.2. March 1912 to May 1919 Asst. Engr. with Ralph Modieski. Cons. Engr., Chicago, New York, as Chf. Computer and Asst. Designer on long-span bridges. Memphis, Metropolis, Second Narrows, Quebec, and other bridges, and some buildings, numerous investigations and reports; edited principal technical papers for Commission's final report on new Quebec Bridge. TT 7.2: P 7.2: RC 3.6: D 1. May 1919 to June 1920 Deputy State Engr., South Dakota, Pierre, S. Dak., surveys and designs, investigations and reports on miscellaneous engineering projects; supervisory charge of all county drainage work under direction of State Engr. TT 1.1: P 1.1: RC 1.1: D 0.5. June 1920 to date State Engr., in charge of design and construction of state buildings, county drainage works, irrigation, and miscellaneous engineering undertakings; member of Hydro-Elec. Com.; Secy., Drainage Comm., and Cons. Engr. for other state boards and commissions. TT 4.3: TT 20.4: SP 2: P 18.4: RC 11.2: D 2. Refers to W. E. Angier, P 4.3: RC 4.3: D 0.5. Marston, D. W. Mead, A. F. Meyer, R. Modjeski, H. D. Robinson, W. M. Smith, F. E. Turneaure, W. B. Wendt.

1038(3) CUSHING, BRUCE LINCOLN, Assoc. M., 80 W. Genesee St., Buffalo, N. Y. (Elected Oct. 4, 1910.) (Age 41. Born Wilson, N. Y.) 1902 graduated from International Correspondence School. 1902 to 1904 Instrumentman and Draftsman, City of North Tonawanda, surveys, sewer and water-works construction. TT 2.1: SP 2.1. 1904 to 1905 in private practice of general engineering and construction, surveys, drainage contracts, saw-mill and coal-trestle design and construction, machine design. TT 1.1: P 1.1: RC 1.1: D 0.4. 1905 to 1906 Levelman, Isthmian Canal Comm., Panama, Municipal Dept., in charge of engineering on paving of Panama City. TT 1.1: SP 1.1. 1906 to 1907 Instrumentman and Draftsman, Pittsburgh, Binghamton & Eastern R. R., location and construction. TT 0.8: SP 0.8. 1907 to 1908 Asst. Engr., South Shore Traction Co., Babylon, N. Y., in charge of location and construction of electric railway. TT 0.4: P 0.4: RC 0.4. 1908 to 1911 Engr., Juragua Iron Co., Firmeza, Cuba, location and construction of railroads, exploration and development of mines, investigations and reports. TT 3.3: P 3.3: RC 3.3: D 0.5. 1911 to 1912 Designing Engr., Dobbie Foundry Co., Niagara Falls, N. Y., design and construction of cranes, derricks, hoists and contractors' equipment. TT 1.1: P 1.1: RC 0.3: D 1.1, 1912 to 1916 Designing Engr., Carrier Air Conditioning Co., Buffalo, N. Y., design and construction of tobacco conditioning machines, heating, ventilating and buildings. TT 3.4: P 3.4: RC 3: D 2. 1916 to 1919 Designing Engr., Hooker Electro-Chemical Co., Niagara Falls, design and construction of buildings and equipment. TT 3.5: P 3.5: RC 1.5: D 3. 1919 to date Cons. Engr., Industrial Planning Corporation (Director), Buffalo, general consulting work, civil, mechanical, heating and ventilating. TT 5; P 5; RC 5; D 2.5. TT 21.8; SP 4; P 17.8; RC 14.6: D 9.5. Refers to T. W. Barrally, G. B. Bassett, S. T. M. Carpenter, A. E. Lindau, H. E. Plumer, N. P. Turner, C. T. Waring.

1039(1) GERHARD, NORMAN PAUL, Assoc. M., Parkway Bldg., Scarsdale, N. Y. (Elected April 2, 1913.) (Age 40. Born New York City.) 1906 S. B., Mass. Inst. Tech. June to Oct. 1906 Topographical Draftsman, and Oct. 1906 to April 1918 Asst. Engr., Board of Water Supply, New York City. TT 14.8: SP 2.3: P 12.5: RC 6: D 3. April 1918 to Oct. 1919 Res. Engr. for James H. Fuertes, Cons. Engr., on water-works and sewer construction for City of Cumberland, Md. TT 1.5: P 1.5: RC 1.5: D 0.5. Oct. 1919 to date in private practice at Scarsdale, N. Y., civil engineering and surveying. TT 5: P 5: RC 5: D 2. TT 21.3: SP 2.3: P 19: RC 12.5: D 5.5. Refers to A. Boniface, J. L. Davis, J. D. Justin, A. W. Tidd, C. E. Wells, T. H. Wiggin.

1040(8) GRANDPRE, AMBROSE GOULET, Assoc. M., 64 E. Jackson Blvd., Chicago, Ill. (Elected Dec. 3, 1912.) (Age 41. Born Kankakee, Ill.) 1906 B. S. in C. E., Univ. of Ill. Summer 1905 Draftsman, Chicago, Rock Island & Pacific Ry. TT 2: SP 2. 1906 to 1909 Draftsman, Chicago, Milwaukee & St. Paul Ry., preliminary and location surveys, and Bridge Designer and Inspector. TT 3: SP 1: P 2: RC 1: D 1. 1909 to 1917 Supt. of

Constr. with Marshall & Fox, Archts., Chicago, on various buildings, including Morrison Hotel (two sections), Chicago, Burlington & Quincy Ry. Gen. Office Bldg., Federal Life Bldg., Woods Theatre and Office Bldg., Lyon and Healy Stores, school buildings, apartments, commercial garages, warehouses, residences and special calsson foundations and shoring projects. TT 3: P 3: RC 7.5: D 0.5. 1917 to 1923 Constr. Engr., Longacre Eng. & Constr. Co. of Chicago, built State-Lake, Apollo, and Selwyn-Harris Theatres, Trianon Baliroom, all of Chicago, and Capitol Theatre of Detroit, also extensive remodeling work. TT 6: P 6: RC 5.5: D 0.5. 1923 to date Vice-Pres. of Bierd, Lydon & Grandpré, Gen Contra. and Engrs., in charge of railway, industrial and commercial construction. TT 1.5: P 1.5: RC 1. TT 20.5: SP 3: P 17.5: RC 15: D 2. Refers to I. O. Baker, H. J. Burt, M. Fridstein, E. J. Mehren, L. E. Ritter, C. C. Williams.

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1041(12) PARTRIDGE, JOHN FREDERICK, Assoc. M., Copco Bldg., Medford, Ore. (Elected Junior Feb. 4, 1913; Assoc. M., Jan. 19, 1920.) (Age 33. Born San Francisco, Cal.) 1912 A. B. in C. E., Leland Stanford, Jr., Univ. May to Aug. of years 1907-1909 on various surveys. May to Aug. 1910 Asst. Engr. on highway location and construction. Dec. 1910 to Feb. 1911 Draftsman, and Aug. 1912 to Feb. 1913 Draftsman and Chf. of Party, design and location, irrigation works, Duryea, Haehl & Gilman. TT 2.7: SP 2.7. Feb. to Aug. 1911 Chf. of Party, railroad location, Sierra Nevada Wood & Lumber Co. TT 0.5: SP 0.5. Feb. to Nov. 1913 on location and construction, irrigation works, and Nov. 1913 to Feb. 1914 Asst. Engr., structure design and hydraulic studies on river control, Hammon Eng. Co., San Francisco, Cal. TT 1: SP 0.7: P 0.3: D 0.8. Feb. 1914 to Sept. 1917 Chf. Engr., Pipe Dept., Redwood Manufacturers' Co., San Francisco, engineering design, contracting and construction on pipe-lines, etc., for irrigation, hydro-electric and water-works. TT 3.5: P 3.5: RC 1.7: D 1.7. Sept. 1917 to July 1919 1st Lieut, and Capt., Engrs., U. S. Army, TT 1.7: P 1.7: RC 1.7. July 1919 to Feb. 1920 Res. Engr., California National Bank, Sacramento, Cal., in charge construction, multiple-arch dam on Panocho Creek, Cal. TT 0.5: P 0.5: RC 0.5. Feb. 1920 to March 1921 Cons. Engr., Sutter Basin Co., California (3 months) and Gienn-Colusa Irrigation Dist. (1 year), design of irrigation Drainage Basins. TT 1.2: rights and water resources of Sacramento and San Joaquin Drainage Basins. TT 1.2: Glenn-Colusa Irrigation Dist. (1 year), design of irrigation works, studies pertaining to water Ore., construction, design, location, hydraulic and other works for hydro-electric power development. TT 3.5: P 3.5: RC 1.7: D 1.7. TT 14.7: SP 3.9: P 10.8: RC 7: D 3.8. Refers to S. Baker, B. Duryea, H. R. Edwards, H. L. Haehl, C. D. Marx, M. M. O'Shaughnessy, A. A. Peters, C. B. Wing.

1042(4) SACKS, SAMUEL ISAIAH, Assoc. M., 3219 Fontaine St., Philadelphia, Pa. (Elected Junior Nov. 3, 1915; Assoc. M., April 16, 1918.) (Age 32. Born Wilmington, Del.) 1913 B. S. in C. E., and 1916 C. E., Univ. of Pa. 1922 Registered Prof. Engr., State of Penn-June to Sept. 1911 Draftsman, Designer and Surveyor, Linker-Losse Co., on reinforced concrete building construction and concrete sidewalks and curbs, gave lines and grades for town work. June to Sept. 1912 with Wm. Linker Co. (formerly Linker-Losse Co.) as Estimator and Asst. Supt. on reinforced concrete building construction, Asst. Supt. on Provident L. & T. Co. Warehouse, and Supt. on Swift & Co. Bldg. repairs. TT 2: SP 2. June 1913 to Sept. 1918 and Dec. 1918 to Sept. 1919 Draftsman, Dept. of City Transit, Philadelphia, drafting and designing on sewers, subways and elevated railways, and column footings and piers for Frankford Elevated over Frankford Creek; prepared a number of estimates for sewer work under construction; in charge of inspection of test borings on Frankford Extension, Byberry Line and Parkway Subway (summer 1916); after Nov. 1916 in charge of sewer design on Delivery Loop and North Broad St. Subway; after Sept. 1917. in entire charge of sewer design on all subway construction; also had charge of designing of underpinning and steelwork on several sections of North Broad St. Subway, charge of structural design of several Frankford Elevated Station Bldgs., and Steel Inspector, Huntingdon Station, Frankford Elevated; from Jan. 1918 to Sept. 1919 prepared all specifications for subways, elevated lines and station buildings. TT 6: P 6: RC 3: D 3. Sept. to Dec. 1918 Student with Officers' Corps, U. S. Naval Reserve Force. TT. 0.3: SP 0.3. Sept. 1919 to date Chf. Estimator and Civ. Engr., Wm. Linker Co., in charge of all estimates for buildings of all types, including schools, factories and office buildings (estimated total about \$10 000 000 annually); also Office Mgr. for all construction work averaging \$1 000 000 annually; designed and in charge of a number of concrete, steel and wood structures. TT 5.1: P 5.1: RC 4: D 1.1. TT 13.3: SP 2.2: P 11.1: RC 8.1: D 6.1. Refers to H. C. Berry, R. L. Humphrey, H. H. Quimby, C. H. Stevens, S. T. Wagner, G. S. Webster. s.

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1043(6) STURDY, NATHAN HENRY, Assoc. M., 356 Crandall Ave., Youngstown, Ohio. (Elected April 7, 1915.) (Age 45. Born Formby, Lancashire, England.) 1905 received diploma in Civ. Eng., Ontario School of Practical Science (Univ. of Toronto). May to Oct. 1903 Chainman, New York Central & Hudson River R. R. May to Oct. 1904 Instrumentman, and May to Nov. 1905 Draftsman in Chf. Engr.'s Office, Buffalo & Susquehanna Ry. TT 2.6: SP 2: P 0.6: D 0.3. Dec. 1905 to Jan. 1907 Draftsman and Asst. Engr., C. C. Conkling & Co., Cons. Engrs., Buffalo, N. Y., on transmission-line layouts and tower details for Niagara, Lockport & Ontario Power Co., and on comprehensive survey of flood conditions at South Buffalo; designed Marilla St. Bridge for South Buffalo Ry. Co. TT 1.1: P 1.1: D 0.5. Jan. 1907 to June 1913 Designer and Checker, Lake Shore & Michigan Southern Ry. Co., Asst. Chf. Engr.'s Office, Cleveland, Ohio, made surveys and plans for gradecrossing elimination through Sandusky, Ohio, and plans for similar work at Elyria, Ohio, Elkhart, Ind., and other points; revised standard plans for water tanks and various other structures; made plans, including masonry, piping and mechanical equipment, for track trough circulation system for keeping troughs free from ice; designed and made plans for docks at Ashtabula Harbor, including power-house, car dumper, water system, etc., and for engine terminals at Air Line Junction, Toledo, Ohio, Englewood (Chicago) and other points, including engine and bunk houses, machine shops, office buildings, water supply and sewerage systems; prepared general layout and detail plans for Elkhart Locomotive shops, including power and store houses, distribution tunnel, etc.; about 3 years in charge of squad pre-paring plans for these and other installations. TT 6.5: P 6.5: RC 3: D 6.5. June 1913 to date with Truscon Steel Co., until April 1914 as Designer and Checker at Detroit, Mich. on reinforced concrete for various types of buildings and bridges; then at Youngstown, Ohio; from April 1914 to Oct. 1915 as Head Checker in charge of all drafting-room work involving reinforced concrete construction valued at \$4 000 000 annually; Oct. 1915 to Nov. 1916 Chf. Estimator in charge of designs and estimates for all types of reinforced concrete structures; Dec. 1916 to March 1918 Chf. Draftsman in charge of contracts involving designs and working details for buildings and other types of reinforced concrete construction; also in development of designs and execution of contracts for standard steel building; since March 1918 Chf. Engr. in complete administrative charge of Eng. Dept., involving estimating, designing and detailing of all types of reinforced concrete, standardized steel buildings and steel sash, also general supervision of designs prepared by Company's branch office engineers; supervised approx. \$10 000 000 worth of work annually. TT 11.2: P 11.2: RC 10.4: D 11.2. TT 21.4: SP 2: P 19.4: RC 13.4: D 18.5. Refers to C. S. Boardman, F. L. Gorman, L. C. Hammond, J. Kahn, E. P. Lupfer, S. Macomber, L. H. Miller. Pitteburgh TT 8.1 P 9.5; products and action

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1044(3) LOCHER, HARRY ORRICK, Affiliate, 1420 Genesee St., Utica, N. Y. (Elected April 19, 1920.) (Age 41. Born Balcony Falls, Va.) Sept. 1901 to Aug. 1904 Timekeeper and Foreman on Weston Aqueduct, Mass., for Winston & Co. & Locher. TT 3: SP 3. Sept. 1904 to Nov. 1907 Timekeeper and Foreman on Neebish Channel, Sault Ste. Marie, Mich., for Grant Smith & Co. TT 3.2: P 3.2. Dec. 1907 to June 1910 with Grant Smith & Co. & Locher in charge of levee construction along Mississippi River at New Boston, Ill. (about 10 months); then Supt. on construction of Shoshone Dam, Cody, Wyo. TT 2.6: P 2.6: RC 2.6: D 0.3. July to Dec. 1910 in charge of concrete snowshed and large culvert work on Great Northern Ry. at Berne and Wellington, Wash., Grant Smith & Co. TT 0.5: P 0.5: RC 0.5: D 0.5. Jan. to Aug. 1911 on hydraulic work in Seattle, Wash., with Grant Smith & Co. & Stillwell. TT 0.6: P 0.6: RC 0.6. Sept. 1911 to Nov. 1913 Managing Partner, Johnson, Locher & Co., on construction of Santa Maria hydraulic fill dam at Creede, Colo.; winter on concrete tunnel lining on Spokane, Portland & Seattle Ry. at Kahlotus, Wash., and on concrete pier work at San Francisco, Cal. TT 2.2: P 2.2: RC 2.2: D 1.1. Dec. 1913 to Aug. 1914 on pler construction, San Francisco. TT 0.8: P 0.8: RC 0.8. Sept. 1914 to June 1921 associated with Grant Smith & Co. & Locher in charge of construction of hydro-electric plant at Waterloo, N. Y. (Sept. 1914 to June 1915), of Barge Canal construction at Rome and Utica, N. Y. (July 1915 to Feb. 1918), and of levee construction along Mississippi River at Rohwer, Ark. (March 1918 to April 1919); estimating and bidding on contracts in Eastern States (over \$10 000 000) (May 1919 to June 1921). TT 6.8: P 6.8: RC 6.8: D 1.5. July 1921 to Aug. 1922 member of firm, Johnson, Locher & Co., building part of irrigation project in Alberta, Canada, TT 1.2: P 1.2: RC 1.2. Sept. 1922 to Aug. 1923 member of firm, Locher & Johnson, TT 0.9: P 0.9: RC 0.9. Sept. 1923 to date on private work and equipment rental. TT 1.2: P.1.2. TT 23: SP 6.2: P 16.8: RC 15.6: D 3.4. Refers to D. B. Baker, L. C. Heilbronner, H. M. Knight, S. F. Lewis, G. Moulton, H. B. Muckelston, P. C. Painter, ToP. Paxton, B. E. White of to store and bus mill to redmen state of offer

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1045(14) BUTLER, JOE BEATY, Jun., Box 547, Rolla, Mo. (Elected Aug. 28, 1922.) (Age 29. Born Omega, Okla.) 1915 B. S. in Civ. Eng., Okla. Agri. and Mech. Coll. 1922 C. E., and 1924 M. S. in C. E., School of Mines and Metallurgy, Univ. of Mo. June 1915 to Feb. 1916 Chainman, Atchison, Topeka & Santa Fe Ry. TT 2.6: SP 2.6. March 1916 Rodman, Missouri Pacific Ry. TT 0.1: SP 0.1. March to Sept. 1916 Tapeman, Jan. to May 1917 Field Computer, Sept. 1919 Rodman, and May to Aug. 1920 Office Computer, Div. of Valuation, Interstate Commerce Comm., Western Dist., Kansas City, Mo. TT 1.3: SP 1.3. Oct. to Dec. 1916 Instrumentman, Rock Island Ry. TT 0.2: SP 0.2. May 1917 to Aug. 1919 with U. S. Army, about 3 months at Reserve Officers' Training Camp, Ft. Riley. Kans. : 1 year 2d Lieut., Co. B, 109th Engrs., Camp Cody, N. Mex., engineer training with combat regiment; and 1 year 1st Lieut., 109th Engrs., U. S. Army, and A. E. F., on hospital construction, highway repair, etc. TT 2.2: SP 0.2: P 2: RC 1. Oct. to Nov. 1919 Instrumentman, W. R. Heagler & Sons, Engrs., Paragould, Ark. TT 0.1: SP 0.1. Dec. 1919 to May 1920 Instrumentman on Federal Aid highway survey for County Engr., Bourbon County, Ft. Scott, Kans. TT 0.5: P 0.5. Sept. 1920 to Sept. 1922 Instructor, Dept. of Civ. Eng., School of Mines and Metallurgy, Univ. of Missourl. Sept. 1922 to Sept. 1923 Asst. Prof., and Sept. 1923 to date Associate Prof., same Dept., teaching railroad surveying and structural engineering; also research in structural and sanitary engineering. Since Jan. 1921 also Surveyor for Phelps County, Mo., in complete charge of official land surveys, consulting work, highway location, drainage, etc. (supplementary to teaching). TT 4.1: P 4.1: RC 3.1: D 1.1. TT 11.1: SP 4.5: P 6.6: RC 4.1: D 1.1. Refers to T. R. Agg, H. C. Beckman, R. W. Brooks, E. G. Harris, A. E. Heagler, C. V. Mann, A. Marston, G. E. Martin, J. W. Musham, R. G. Tyler.

1046(6) COSTELLO, EDWARD JAMES, Jr., Jun., 2541 Oliver Bldg., Pittsburgh, Pa. (Elected Oct. 2, 1922.) (Age 25. Born Verona, Pa.) June 1913 to Oct. 1917 tracing and detailing structural steel, Bollinger-Andrews Constr. Co., Verona, Pa. (2% years), Blaw-Knox Co., Blaw-Knox, Pa. (1% years) and Pittsburgh-Des Moines Steel Co., Pittsburgh, Pa. (over 4 months). TT 3.9: SP 3.9. Oct. 1917 to Feb. 1920 on map and architectural drawing, Pennsylvania R. R. Co. (Lines West), Pittsburgh. TT 2.3: SP 2.3. Feb. to Oct. 1920 detailing structural steel, with Chas. E. Hess, Structural Engr., Pittsburgh. TT 0.7: SP 0.7. Oct. 1920 to March 1921 design and estimating structural steel, Blaw-Knox Co. TT 0.4: SP 0.4. April 1921 to date estimating, designing structural and reinforced concrete, past 2 years selling reinforcing steel and building products; at present selling mill building products and acting as Industrial Engr., Truscon Steel Co., Pittsburgh. TT 3.5: P 3.5: RC 2: D 1.5. TT 10.8: SP 7.3: P 3.5: RC 2: D 1.5. Refers to M. Brown, C. H. Fowler, O. W. Irwin, N. H. Jebejian, H. A. Taylor.

1047(10) CURREY, LOUIS ROBERT, Jr., Jun., 1212 Independent Life Bldg., Nashville, Tenn. (Elected July 11, 1921.) (Age 27. Born Nashville, Tenn.) Licensed Engr., State of Tennessee. 1919 B. E., Vanderbilt Univ. June to Sept. 1917 Draftsman, Louisville & Nashville R. R. June to Sept. 1918 Transitman, Davidson County road survey. TT 2: SP 2. June to Dec. 1919 Draftsman, Freeland, Roberts & Co., Cons. Engrs., since Dec. 1919 Designing Engr., and since March 1921 member of same firm, Nashville, Tenn., in responsible charge of design and assisted in supervision of construction on Vanderbilt Stadium (\$214 000), Mailing Dept., Baptist Sunday School Board (\$200 000), Marshall & Bruce Bldg. (\$175 000), all in Nashville; power plants at Lawrenceburg (\$125 000), Shelbyville (\$80 000), and Columbia (\$100 000), Tenn.; stadium for City of Macon, Ga. (\$100 000) and one for Hendrix Coll., Conway, Ark. (\$56 000); Main St. Viaduct, Maryville, Tenn.; East Nashville and Church St. Viaducts (each \$250 000), and repairs to bridges (\$300 000), Nashville; assisted both in supervision and design on last three structures. TT 5.4: SP 0.6: P 4.8: RC 4.8: D 4.8. Refers to E. D. Akers, A. J. Dyer, F. E. Freeland, I. V. Henderer, J. Wilkes, E. B. Wilkinson, C. B. Wilson.

1048(3) DAVIS, DONALD GORDON, Jun., 811 Press Bldg., Binghamton, N. Y. (Elected Sept. 10, 1923.) (Age 29. Born Utlea, N. Y.) 1917 C. E., Cornell Univ. June to Sept. of years 1915 and 1916 Instrumentman and Rodman; M. of W. Dept., New York State Rys., Utlea, N. Y. TT 2: SP 2. June to Dec. 1917 Foreman, Warren Bros. Co., Boston, Mass., on paving at Elmira, N. Y. TT 0.5: P 0.5. May to Dec. 1918 Asst. Engr., in charge of plant transportation for E. I. DuPont Co., at Carneys Point, N. J., smokeless powder plant. TT 0.5: P 0.5. April to Dec. 1919 Foreman and Asst. Supt., Warren Bros. Co., on city paving and road construction in New York State and Pennsylvania. TT 0.6: P 0.6. April 1920 to date member of firm, and Gen. Supt. of Constr., Municipal Constr. Co., Utlea, N. Y.

has general charge of methods of construction, selection of equipment and personnel on city paving and state road work and other associated municipal and public work contracts, mainly in New York State; supervised contracts in Gloversville, Binghamton, Onelda, Pough-keepsle, Middletown, Hudson and various other points, including several contracts for New York State Highway Dept., also contracts for state and municipalities in New Jersey; directed work amounting to about \$2 000 000. TT 4.5: P 4.5: RC 4.5. TT 8.1: SP 3: P 6.1: RC 4.5. Refers to A. F. Armstrong, J. A. Giles, E. H. Prentice, F. A. Tillman, W. E. Weller.

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1050(1) WEISKOPF, WALTER HERBERT, Jun., 255 West 98th St., New York City. (Elected March 7, 1921.) (Age 25. Born New York City.) 1920 C. E., Rens. Pol. Inst. July to Sept. 1919 Rodman, Jarrett-Chambers Co., Inc., Contrs., New York City. TT 2.2: SP 2.2. July 1920 to June 1921 Draftsman, Pencoyd (Pa.) Plant, American Bridge Co., made detail drawings for structural steel office buildings, mill buildings, and bridges. TT 1: SP 1. June to Sept. 1921 designed structural steel for Stang & Mitchell, Philadelphia, Pa., on design of dirigible balloon hangar for Scott Field, Ill. TT 0.3: P 0.3: D 0.3. Oct. 1921 to Jan. 1922 with Thos. W. Lamb, Archt., New York City, designed structural steel for theatre at Schenectady, N. Y. TT 0.2: P 0.2: RC 0.2: D 0.2. Feb. to May 1922 with Dept. of Water Supply, Gas and Electricity, New York City, on design for concrete arch to replace High Bridge over Harlem River., TT 0.2: P 0.2: D 0.2. May 1922 to date with American Bridge Co., until July 1923 at Pencoyd Plant, making layouts for design of details in structural steelwork on such buildings as Pershing Sq. Bldg., and Shelton Club Hotel, New York City, Inquirer Bldg, and Ben. Franklyn Hotel, Philadelphia, Pa.; since then Engr. at New York office, designing and estimating structural steel, had charge of contracts such as Trenton (N. J.) Trust Co. (14 stories) and Bank of America (23 stories) New York City. TT 2.5: P 2.5: RC 1.3: D 1.3. TT 6.4: SP 3.2: P 3.2: RC 1.5: D 2. Refers to F. L. Castleman, J. H. Edwards, T. R. Lawson, J. W. Pickworth, J. E. Wadsworth, W. H. Yates.

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FROM THE GRADE OF JUNIOR

(Elected Aug. 28, 1922.) 1045(14) BUTLER, JOE BEATY, Jun., Box 547, Rolla, Mo. (Age 29. Born Omega, Okla.) 1915 B. S. in Civ. Eng., Okla. Agri, and Mech. Coll, 1922 C. E., and 1924 M. S. in C. E., School of Mines and Metallurgy, Univ. of Mo. June 1915 to Feb. 1916 Chainman, Atchison, Topeka & Santa Fe Ry. TT 2.6: SP 2.6. March 1916 Rodman, Missouri Pacific Ry. TT 0.1: SP 0.1. March to Sept. 1916 Tapeman, Jan. to May 1917 Field Computer, Sept. 1919 Rodman, and May to Aug. 1920 Office Computer, Div. of Valuation, Interstate Commerce Comm., Western Dist., Kansas City, Mo. TT 1.3: SP 1.3. Oct. to Dec. 1916 Instrumentman, Rock Island Ry. TT 0.2: SP 0.2. May 1917 to Aug. 1919 with U. S. Army, about 3 months at Reserve Officers' Training Camp, Ft. Riley, Kans.; 1 year 2d Lieut., Co. B, 109th Engrs., Camp Cody, N. Mex., engineer training with combat regiment; and 1 year 1st Lieut., 109th Engrs., U. S. Army, and A. E. F., on hospital construction, highway repair, etc. TT 2.2: SP 0.2: P 2: RC 1. Oct. to Nov. 1919 Instrumentman, W. R. Heagler & Sons, Engrs., Paragould, Ark. TT 0.1: SP 0.1. Dec. 1919 to May 1920 Instrumentman on Federal Aid highway survey for County Engr., Bourbon County, Ft. Scott, Kans. TT 0.5: P 0.5. Sept. 1920 to Sept. 1922 Instructor, Dept. of Civ. Eng., School of Mines and Metallurgy, Univ. of Missouri. Sept. 1922 to Sept. 1923 Asst. Prof., and Sept. 1923 to date Associate Prof., same Dept., teaching railroad surveying and structural engineering; also research in structural and sanitary engineering. Since Jan, 1921 also Surveyor for Phelps County, Mo., in complete charge of official land surveys, consulting work, highway location, drainage, etc. (supplementary to teaching). TT 4.1: P 4.1: RC 3.1: D 1.1. TT 11.1: SP 4.5: P 6.6: RC 4.1: D 1.1. Refers to T. R. Agg, H. C. Beckman, R. W. Brooks, E. G. Harris, A. E. Heagler, C. V. Mann, A. Marston, G. E. Martin, J. W. Musham, R. G. Tyler.

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1047(10) CURREY, LOUIS ROBERT, Jr., Jun., 1212 Independent Life Bldg., Nashville, Tenn. (Elected July 11, 1921.) (Age 27. Born Nashville, Tenn.) Licensed Engr., State of Tennessee. 1919 B. E., Vanderbilt Univ. June to Sept. 1917 Draftsman, Louisville & Nashville R. R. June to Sept. 1918 Transitman, Davidson County road survey. TT 2: SP 2. June to Dec. 1919 Draftsman, Freeland, Roberts & Co., Cons. Engrs., since Dec. 1919 Designing Engr., and since March 1921 member of same firm, Nashville, Tenn., in responsible charge of design and assisted in supervision of construction on Vanderbilt Stadium (\$214 000). Mailing Dept., Baptist Sunday School Board (\$200 000), Marshall & Bruce Bldg. (\$175 000), all in Nashville; power plants at Lawrenceburg (\$125 000), Shelbyville (\$80 000), and Columbia (\$100 000), Tenn.; stadium for City of Macon, Ga. (\$100 000) and one for Hendrix Coll., Conway, Ark. (\$56 000); Main St. Viaduct, Maryville, Tenn.; East Nashville and Church St. Viaducts (each \$250 000), and repairs to bridges (\$300 000), Nashville; assisted both in supervision and design on last three structures. TT 5.4: SP 0.6: P 4.8: RC 4.8: D 4.8. Refers to E. D. Akers, A. J. Dyer, F. E. Freeland, I. V. Henderer, J. Wilkes, E. B. Wilkinson, C. B. Wilson.

1048(3) DAVIS, DONALD GORDON, Jun., 811 Press Bldg., Binghamton, N. Y. (Electel Sept. 10, 1923.) (Age 29. Born Utica, N. Y.) 1917 C. E., Cornell Univ. June to Sept. of years 1915 and 1916 Instrumentman and Rodman, M. of W. Dept., New York State Rys. Utica, N. Y. TT 2: SP 2. June to Dec. 1917 Foreman, Warren Bros. Co., Boston, Mass. on paving at Elmira, N. Y. TT 0.5: P 0.5. May to Dec. 1918 Asst. Engr., in charge of plant transportation for E. I. DuPont Co., at Carneys Point, N. J., smokeless powder plant TT 0.5: P 0.5. April to Dec. 1919 Foreman and Asst. Supt., Warren Bros. Co., on city paving and road construction in New York State and Pennsylvania. TT 0.6: P 0.6. April 1920 to date member of firm, and Gen. Supt. of Constr., Municipal Constr. Co., Utica, N. Y.

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1049(7) KEREKES, FRANK, Jun., Iowa State Coll., Ames, Iowa. (Elected June 6, 1921.) (Age 28. Born Budapest, Hungary.) 1917 B. S. in Civ. Eng., Coll. of City of N. Y. 1920 C. E., Columbia Univ. Sept. 1916 to June 1917 Asst. in Testing Laboratory, Coll. of City of New York, evening session. June to Oct. 1917 with New York Central R. R. on valuation work. TT 2.4: SP 2.4. Oct. 1917 to June 1920 graduate student in engineering, Columbia Univ., from Sept. 1919 to June 1920 Asst. Instructor, extension teaching, reinforced concrete design. TT 2.9: P 2.9. June to Oct. 1920 private consultation work in structural design for Albin H. Beyer and Charles Ward Hall (June, July and Sept.); during August surveyed property of Robert L. Fowler. TT 0.3: P 0.3: RC 0.1: D 0.2. Oct. 1920 to date Asst. Prof. of Civ. Eng., Iowa State Coll. June to Sept. 1921 Research Engr., Iowa State Coll. Experiment station, in charge of field work in obtaining stress distribution in beam highway bridges. June to Sept. of years 1922 and 1923 Asst. Research Engr., Bureau of Public Roads, on impact on highway bridges, and June to Sept. 1924 Research Engr., same Bureau, in direct charge of stress distribution, strain gauge work, all under supervision of Almon H. Fuller. TT 4: P 4: RC 3.4. TT 9.5: SP 2.4: P 7.1: RC 3.5: D 0.2. Refers to T. R. Agg, R. A. Caughey, J. S. Dodds, J. K. Finch, W. L. Foster, A. H. Fuller, F. O. X McLoughlin, C. S. Nichols.

1050(1) WEISKOPF, WALTER HERBERT, Jun., 255 West 98th St., New York City. (Elected March 7, 1921.) (Age 25. Born New York City.) 1920 C. E., Rens. Pol. Inst. July to Sept. 1919 Rodman, Jarrett-Chambers Co., Inc., Contrs., New York City. TT 2.2: SP 2.2. July 1920 to June 1921 Draftsman, Pencoyd (Pa.) Plant, American Bridge Co., made detail drawings for structural steel office buildings, mill buildings, and bridges. TT 1: SP 1. June to Sept. 1921 designed structural steel for Stang & Mitchell, Philadelphia, Pa., on design of dirigible balloon hangar for Scott Field, Ill. TT 0.3: P 0.3: D 0.3. Oct. 1921 to Jan. 1922 with Thos. W. Lamb, Archt., New York City, designed structural steel for theatre at Schenectady, N. Y. TT 0.2: P 0.2: RC 0.2: D 0.2. Feb. to May 1922 with Dept. of Water Supply, Gas and Electricity, New York City, on design for concrete arch to replace High Bridge over Harlem River. TT 0.2: P 0.2: D 0.2. May 1922 to date with American Bridge Co., until July 1923 at Pencoyd Plant, making layouts for design of details in structural steelwork on such buildings as Pershing Sq. Bldg., and Shelton Club Hotel, New York City, Inquirer Bldg. and Ben. Franklyn Hotel, Philadelphia, Pa.; since then Engr. at New York office, designing and estimating structural steel, had charge of contracts such as Trenton (N. J.) Trust Co. (14 stories) and Bank of America (23 stories) New York City. TT 2.5: TT 6.4: SP 3.2: P 3.2: RC 1.5: D 2. Refers to F. L. Castleman, P 2.5: RC 1.3: D 1.3. J. H. Edwards, T. R. Lawson, J. W. Pickworth, J. E. Wadsworth, W. H. Yates.

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